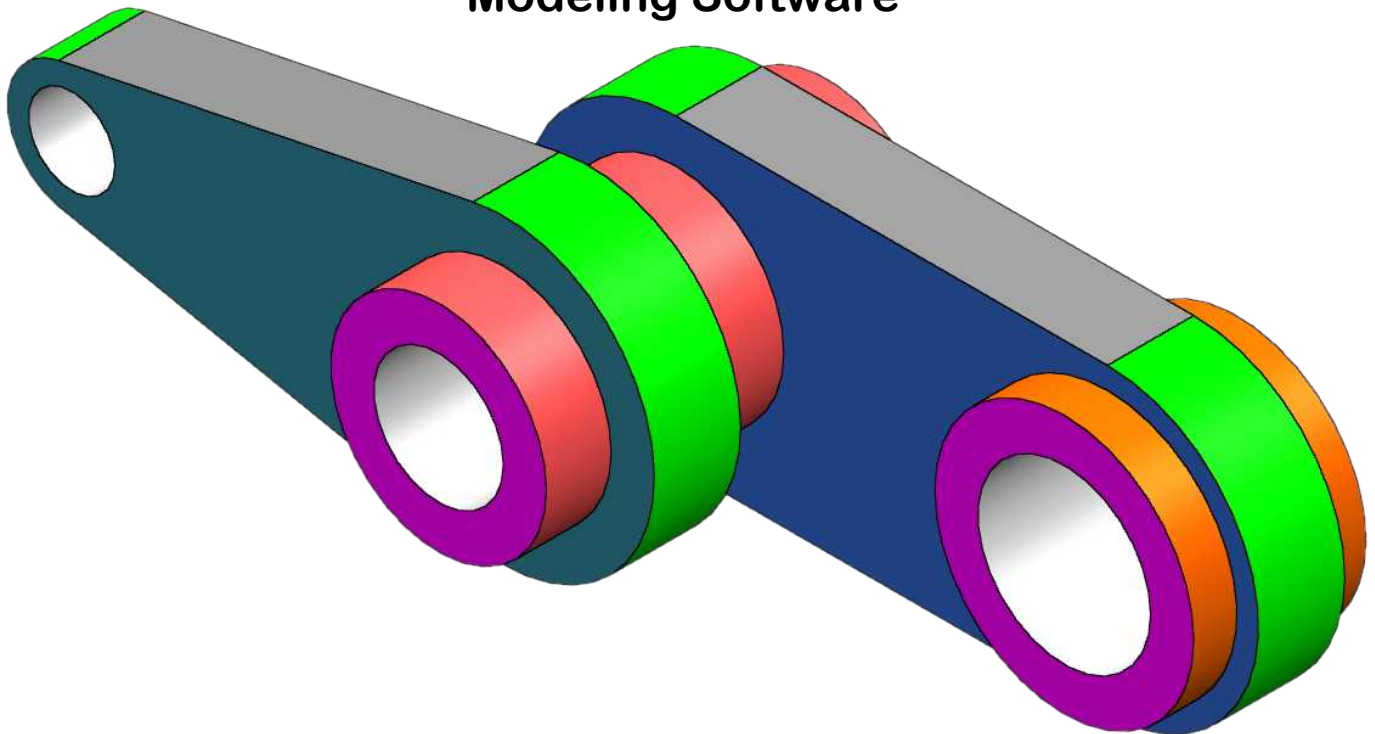


SOLIDWORKS

200 EXERCISES

For SolidWorks and Other Feature-Based
Modeling Software



200 Practice Exercises, 3D Models & Drawings
For Beginner, Intermediate and Advance users

SACHIDANAND JHA

SOLIDWORKS 200 EXERCISES

SACHIDANAND JHA



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Sachidanand Jha
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SOLIDWORKS 200 EXERCISES

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Preface

SolidWorks is a solid modeling computer-aided design (CAD) and computer-aided engineering (CAE) computer program that runs on Microsoft Windows. SolidWorks is published by Dassault Systèmes.

SolidWorks is a solid modeler, and utilizes a parametric feature-based approach which was initially developed by PTC (Creo/Pro-Engineer) to create models and assemblies.

SOLIDWORKS 200 EXERCISES book contains 200 CAD practice exercises and drawings. This book does not provide step by step tutorial to design 3D models.

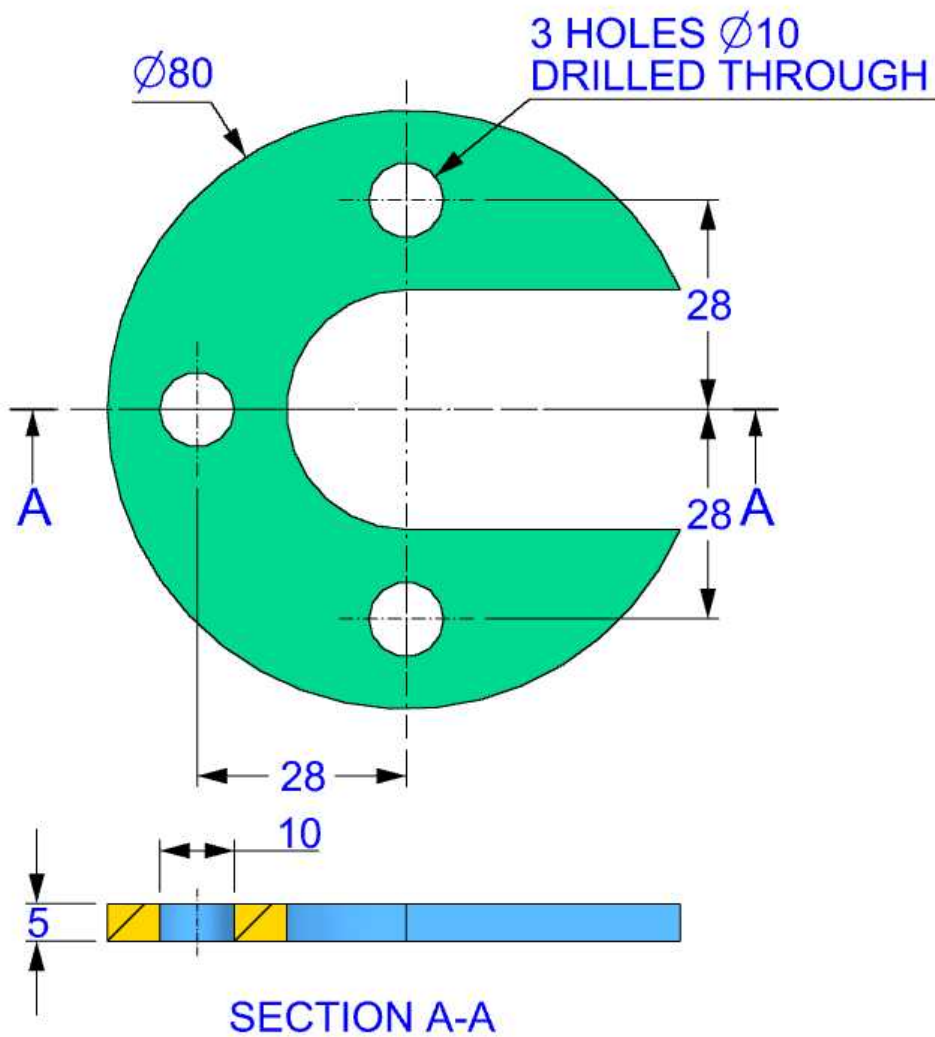
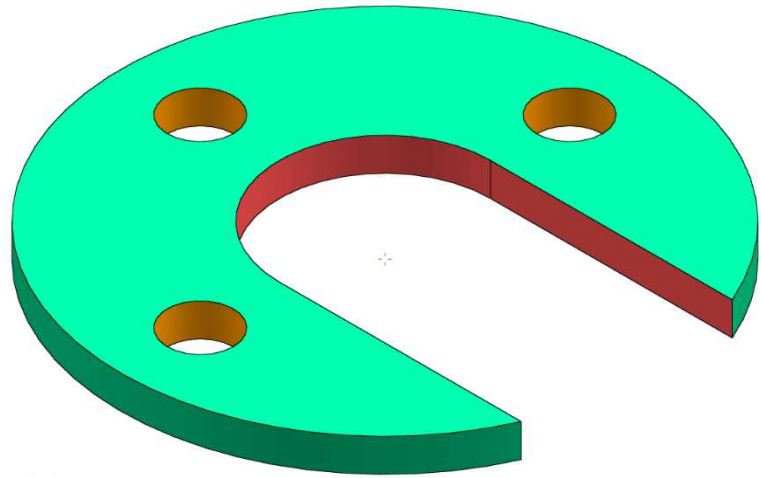
This book consists 200 Practice Exercises, 3D Models & Drawings which can be used for practice on SOLIDWORKS, CATIA, NX, CREO, SOLID EDGE, AUTODESK INVENTOR and other feature based modeling softwares.

This book is for Beginner, Intermediate and Advance CAD users. These exercises are from Basics to Advance level. Each exercises can be assigned and designed separately. No Exercise is a prerequisite for another. All dimensions are in mm.

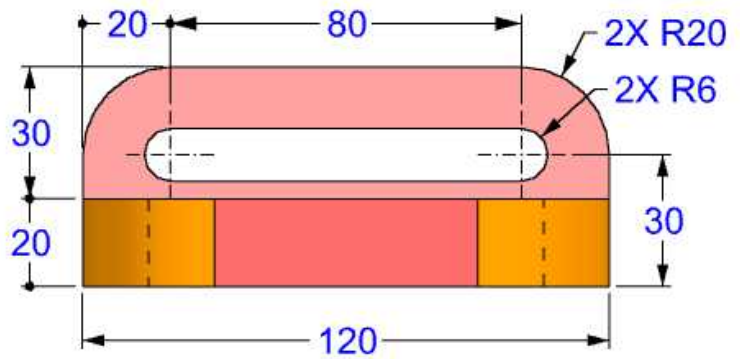
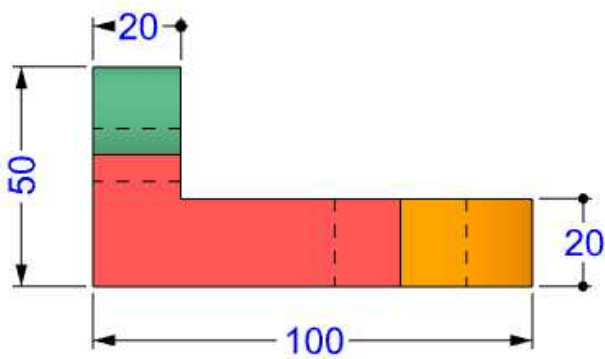
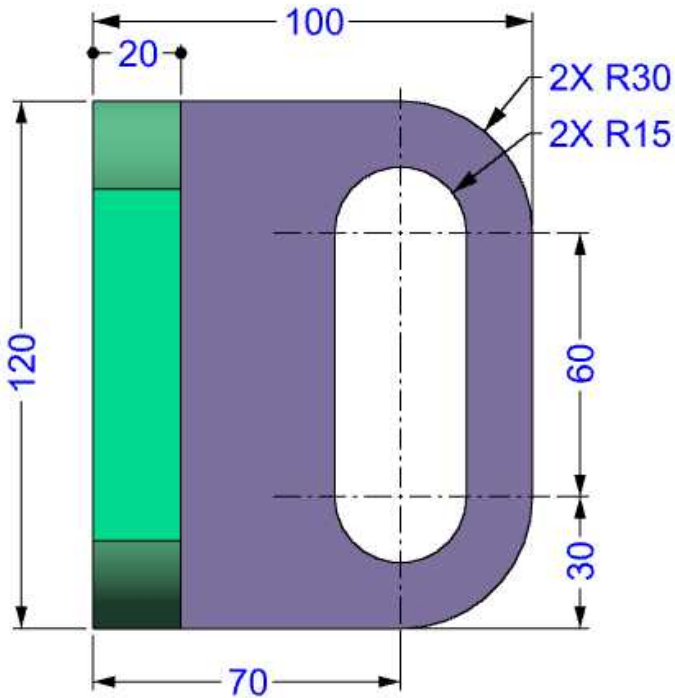
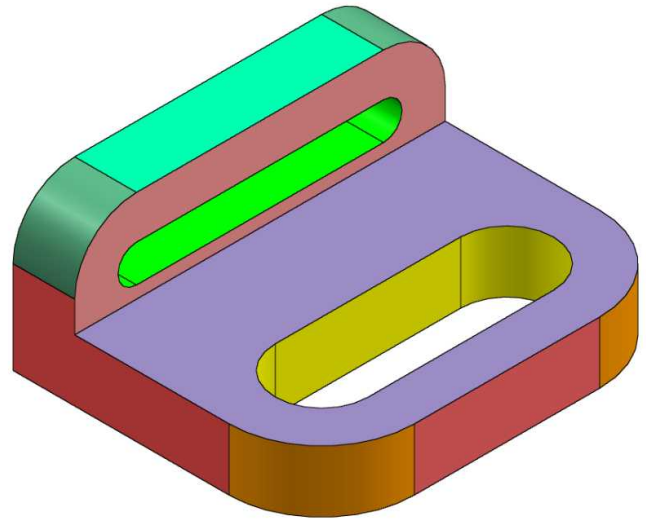
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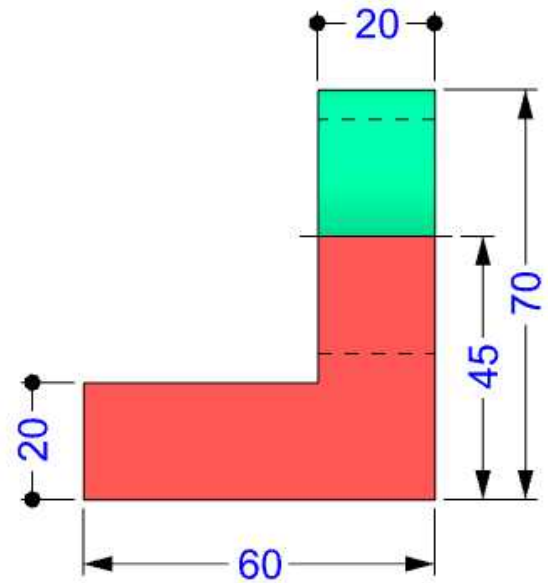
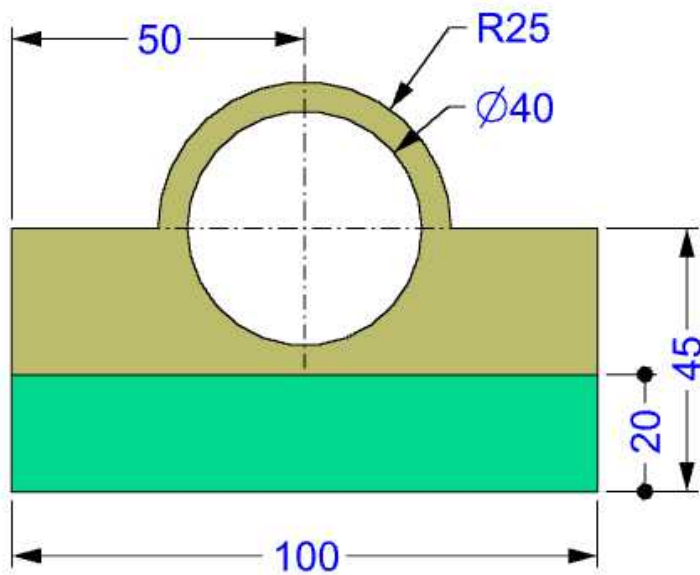
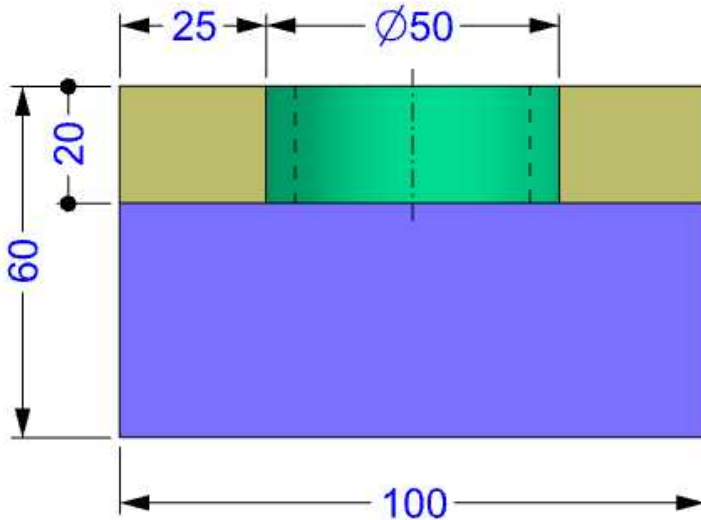
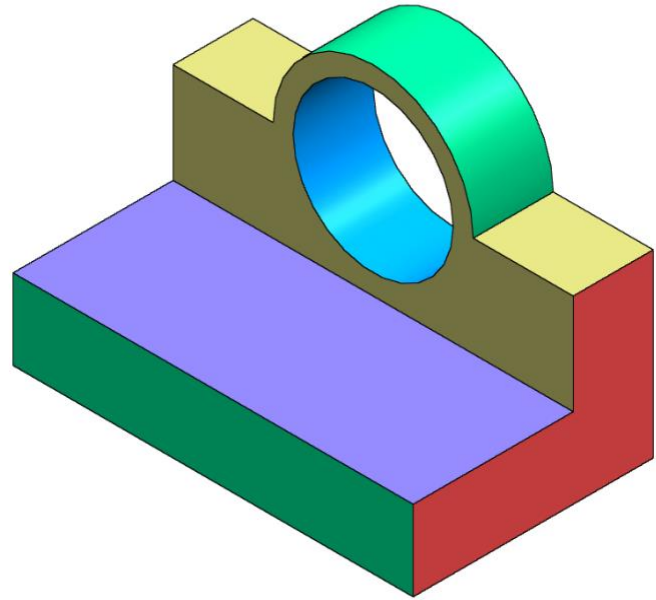
Prerequisites

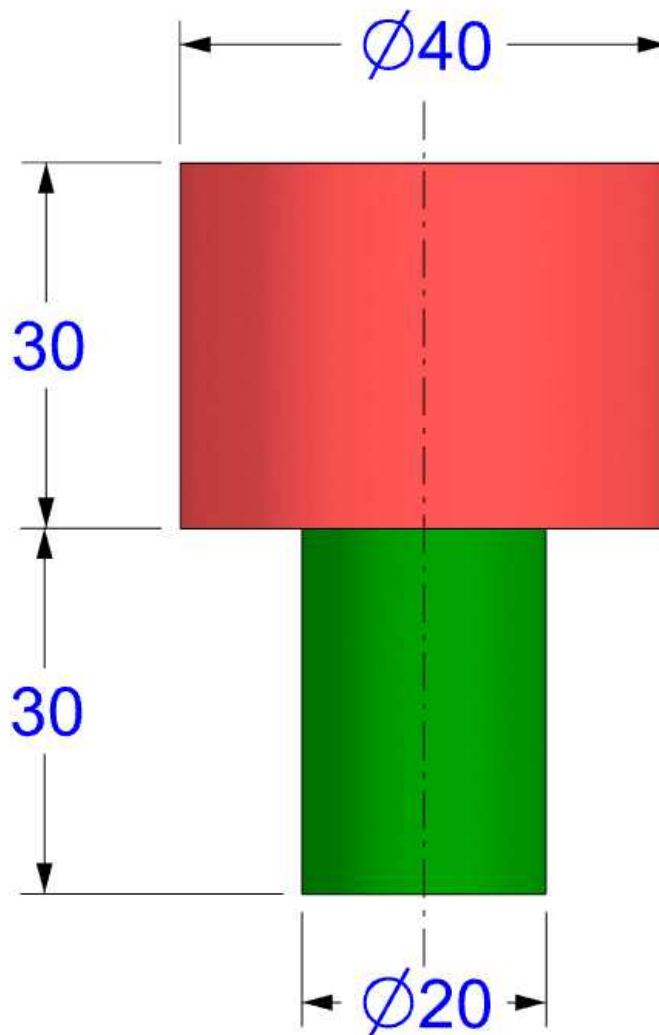
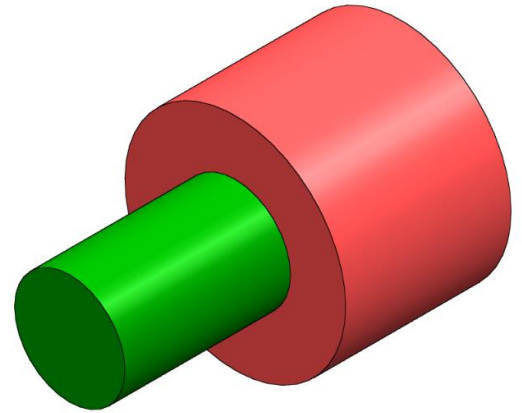
To design & develop models, You should have knowledge of Solidworks. Student should have knowledge of Orthographic views and projections. Student should have basic knowledge of Engineering drawings.

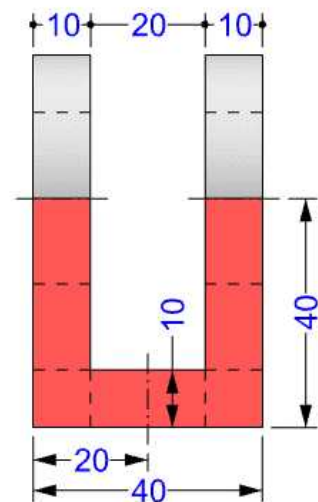
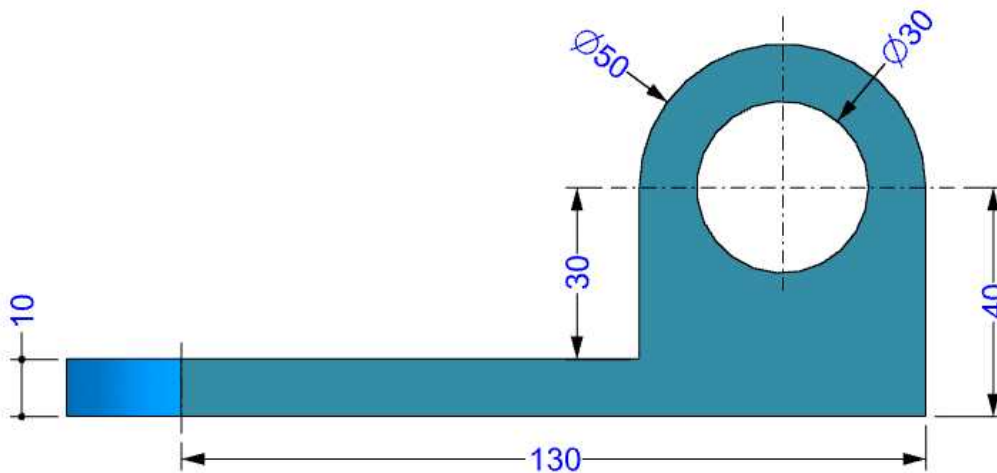
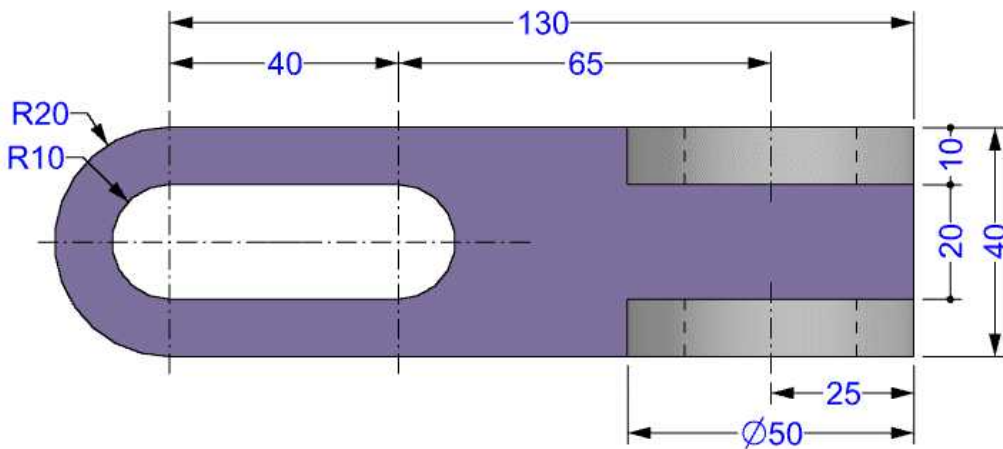
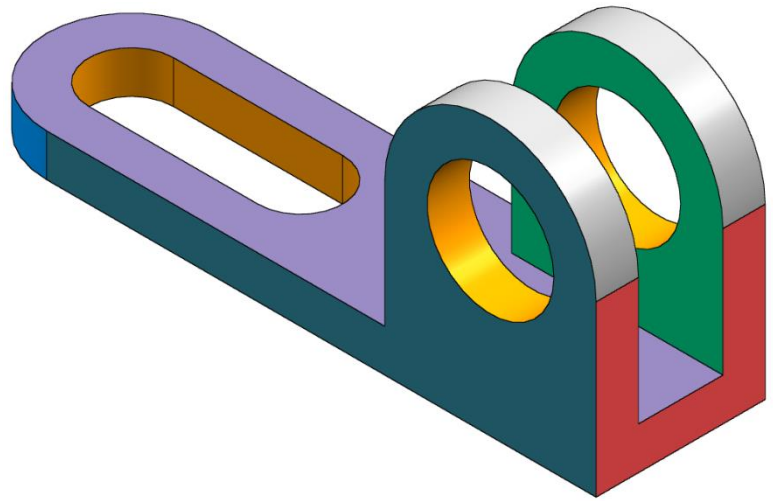
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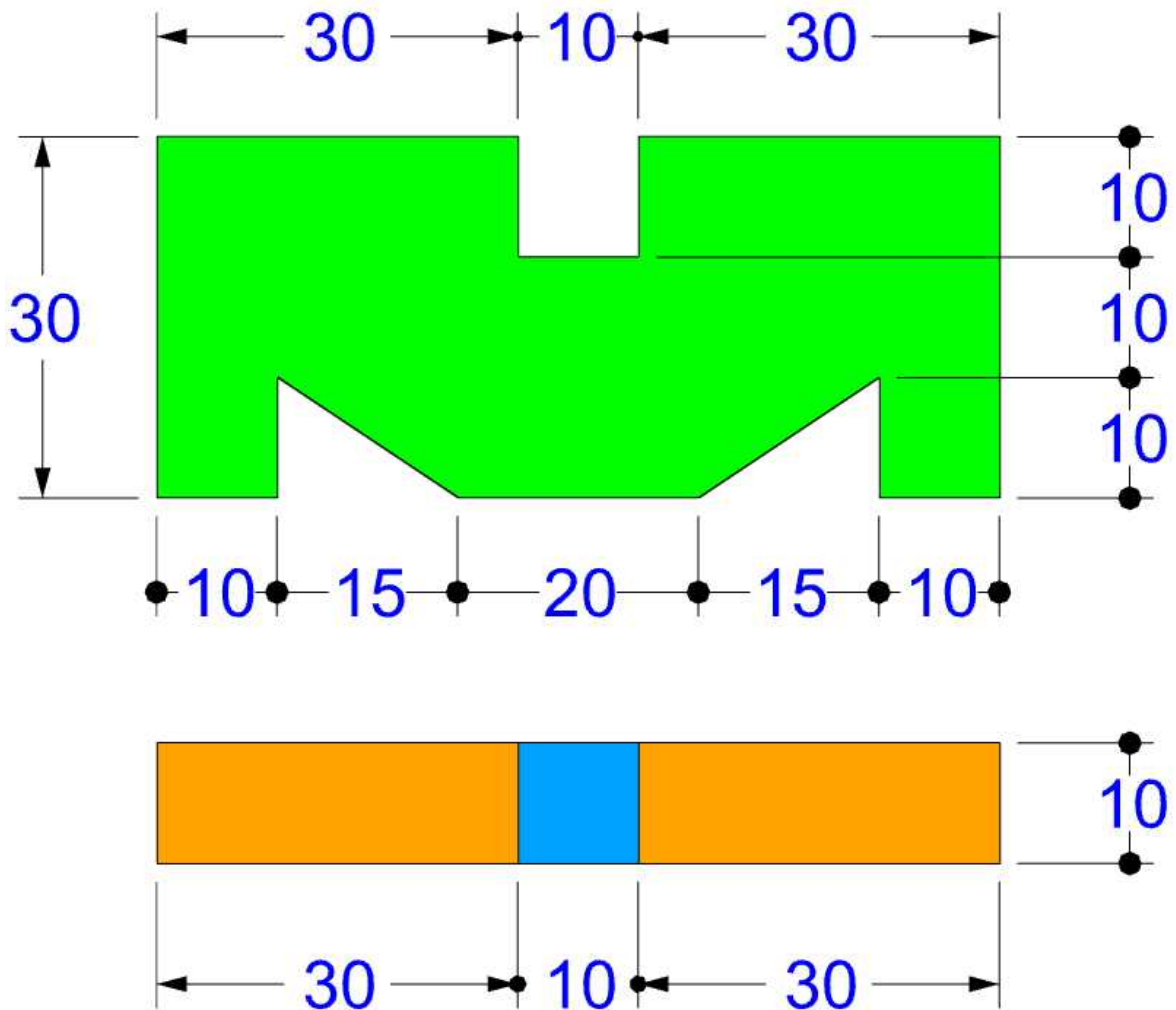
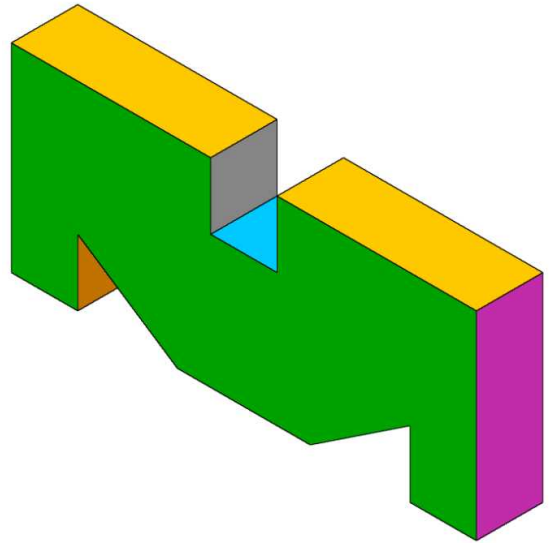
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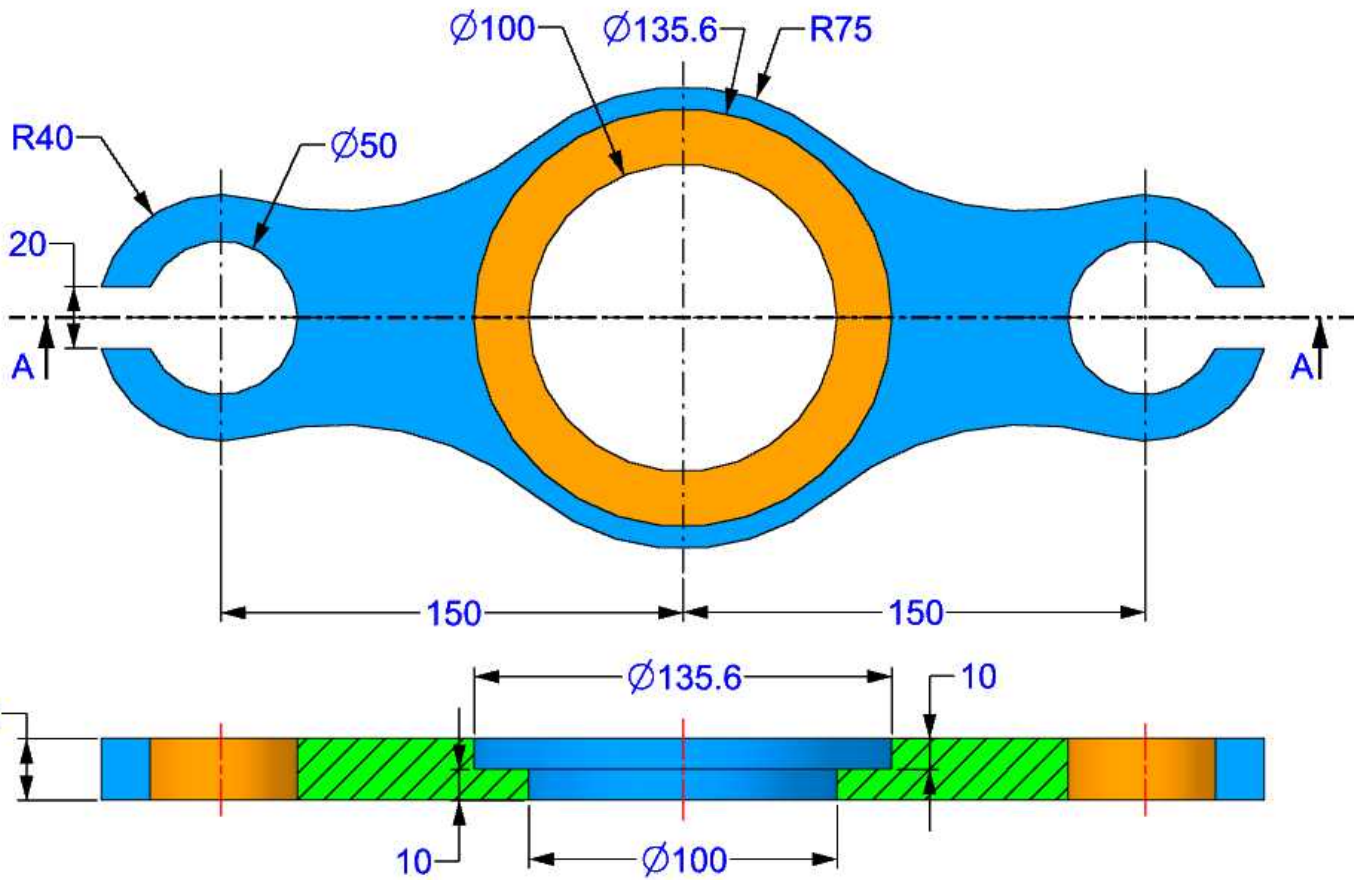


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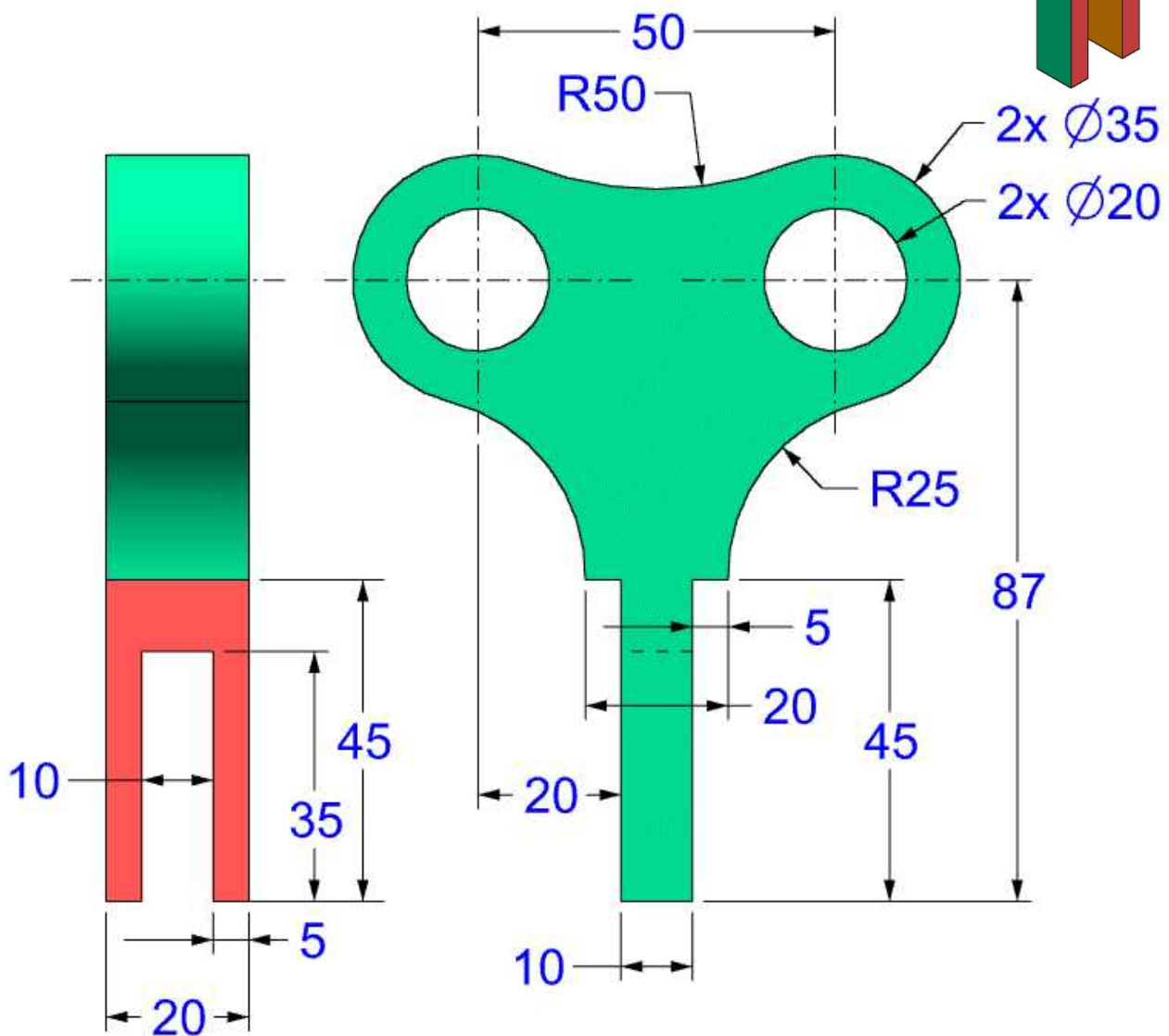
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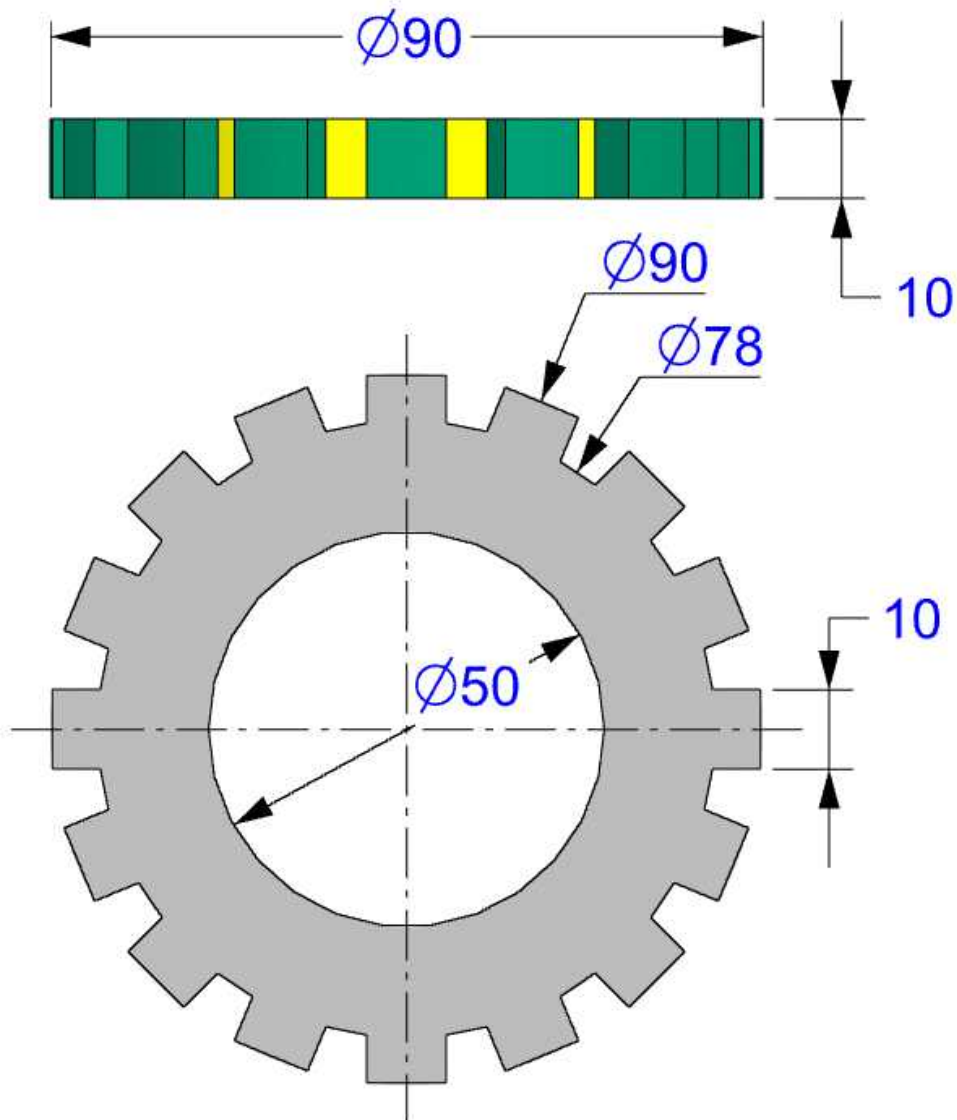
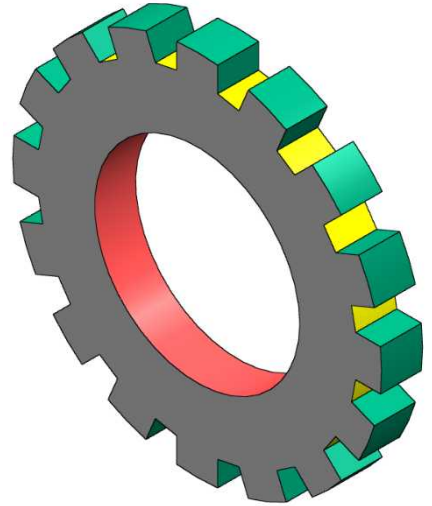
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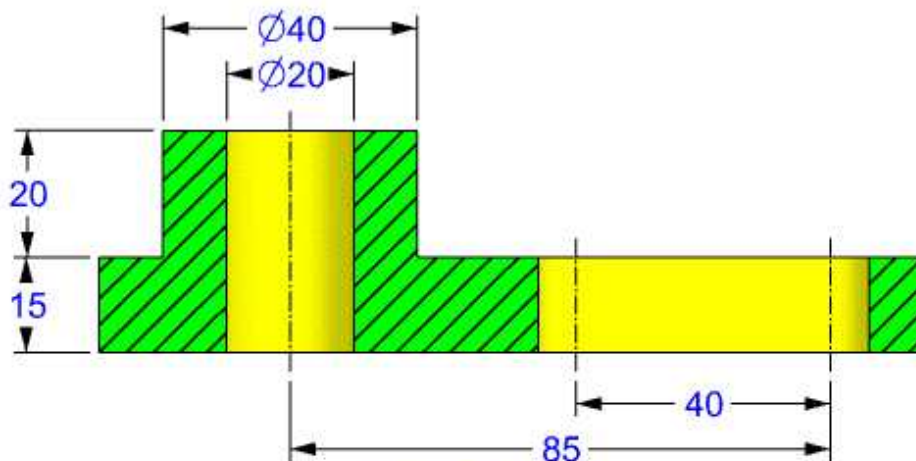
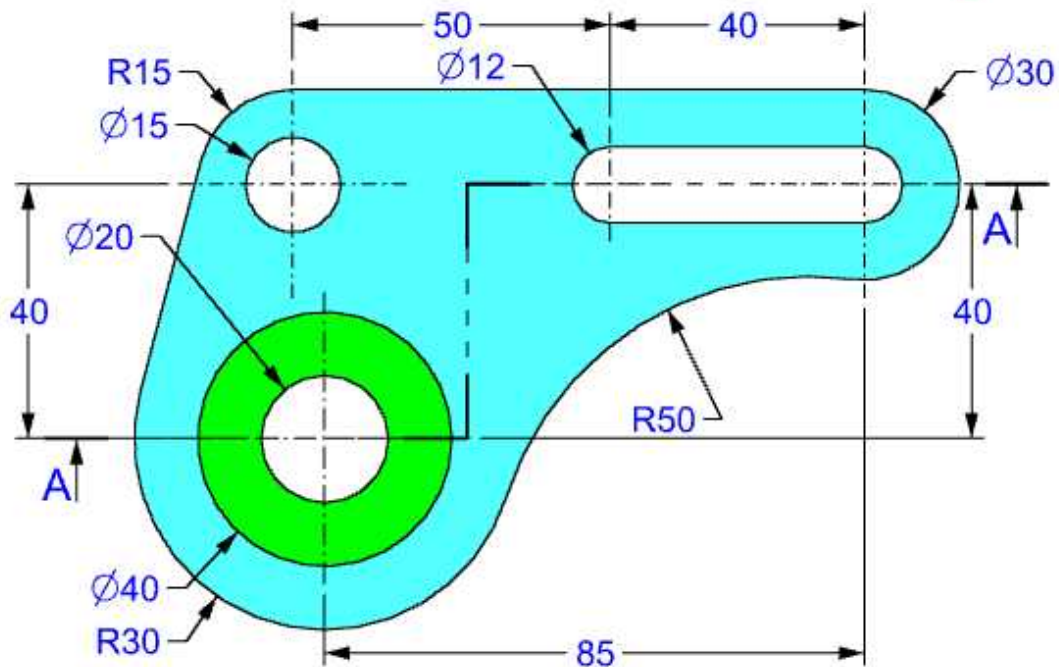
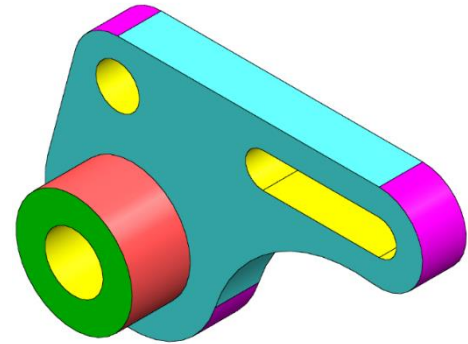
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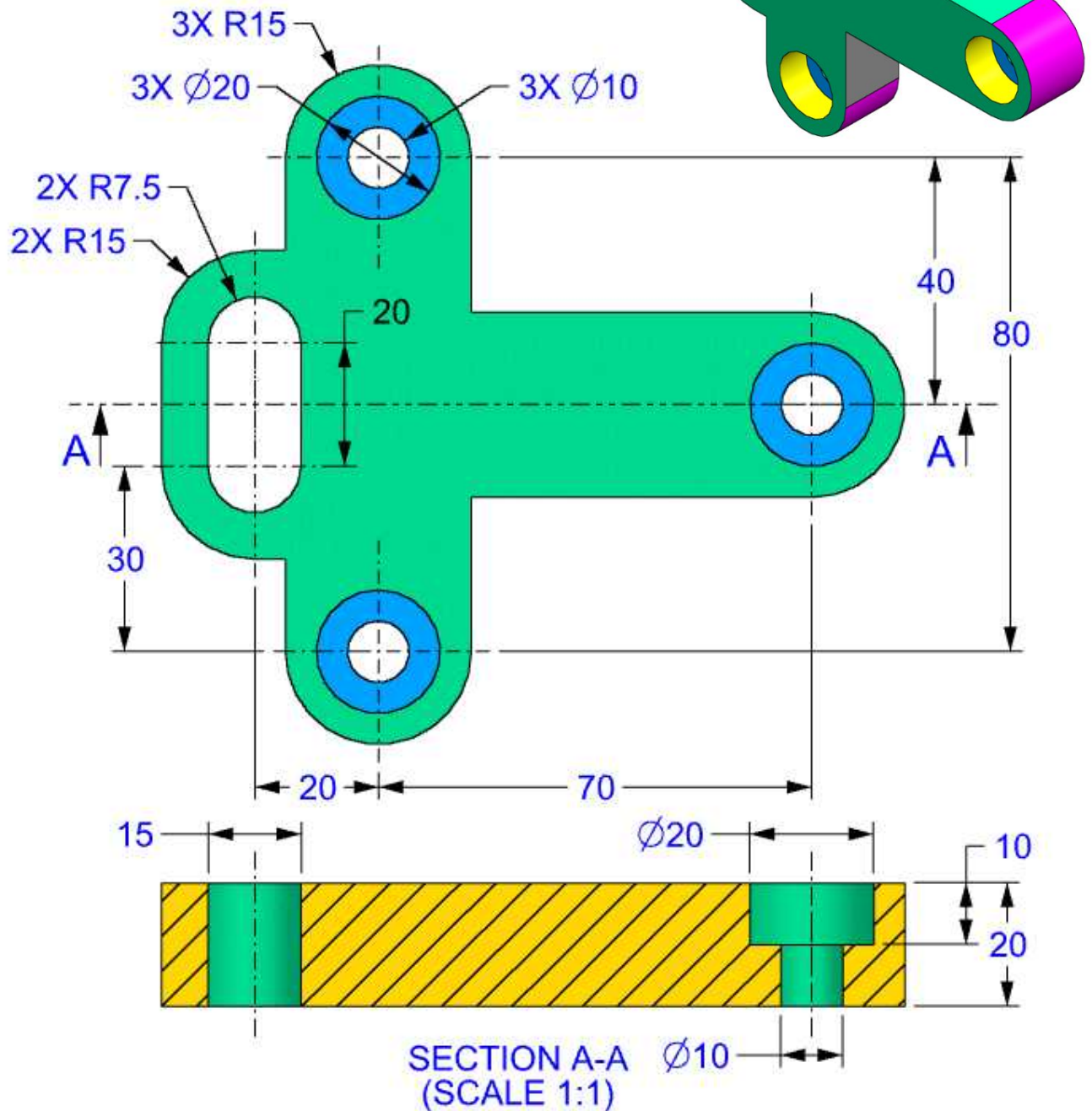
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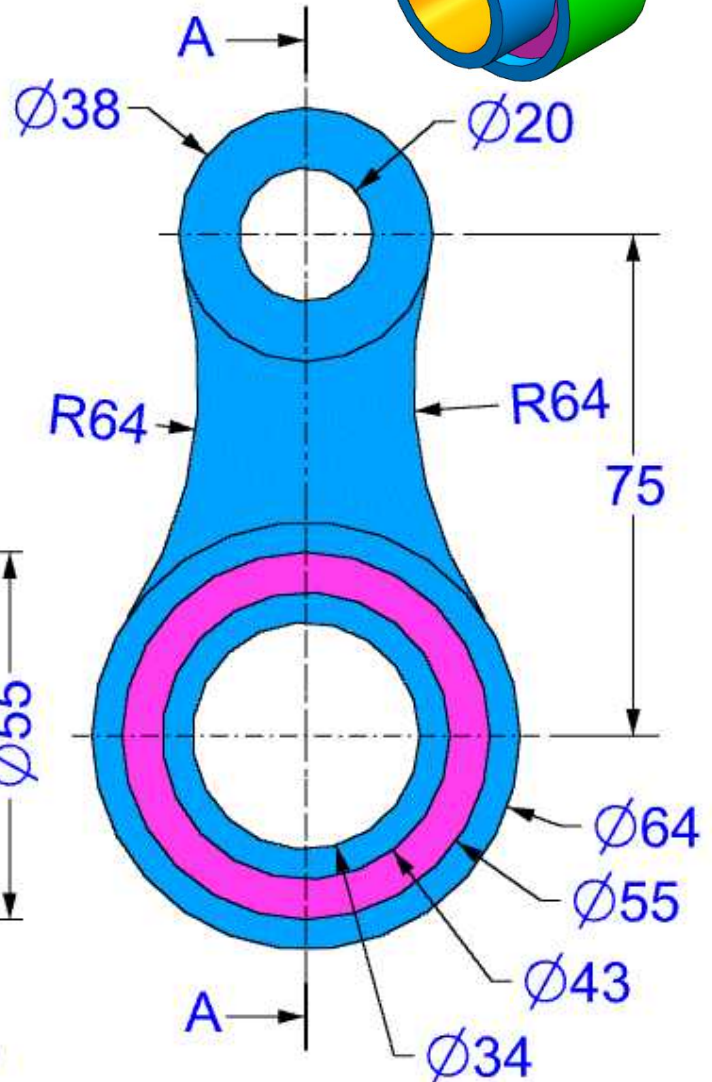
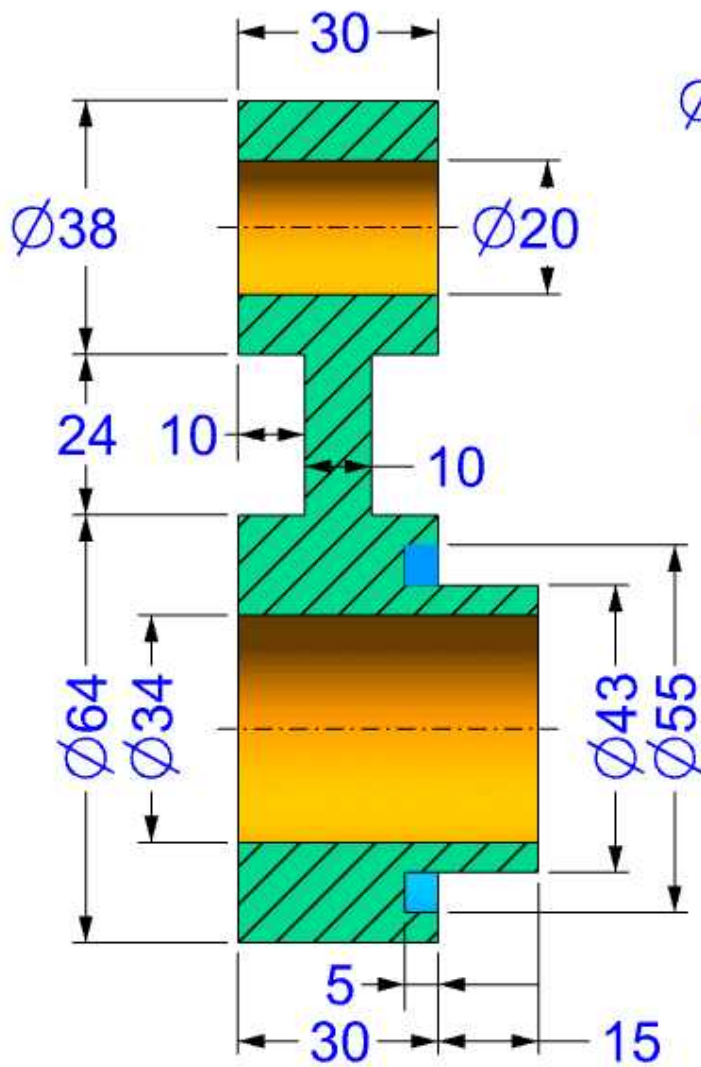


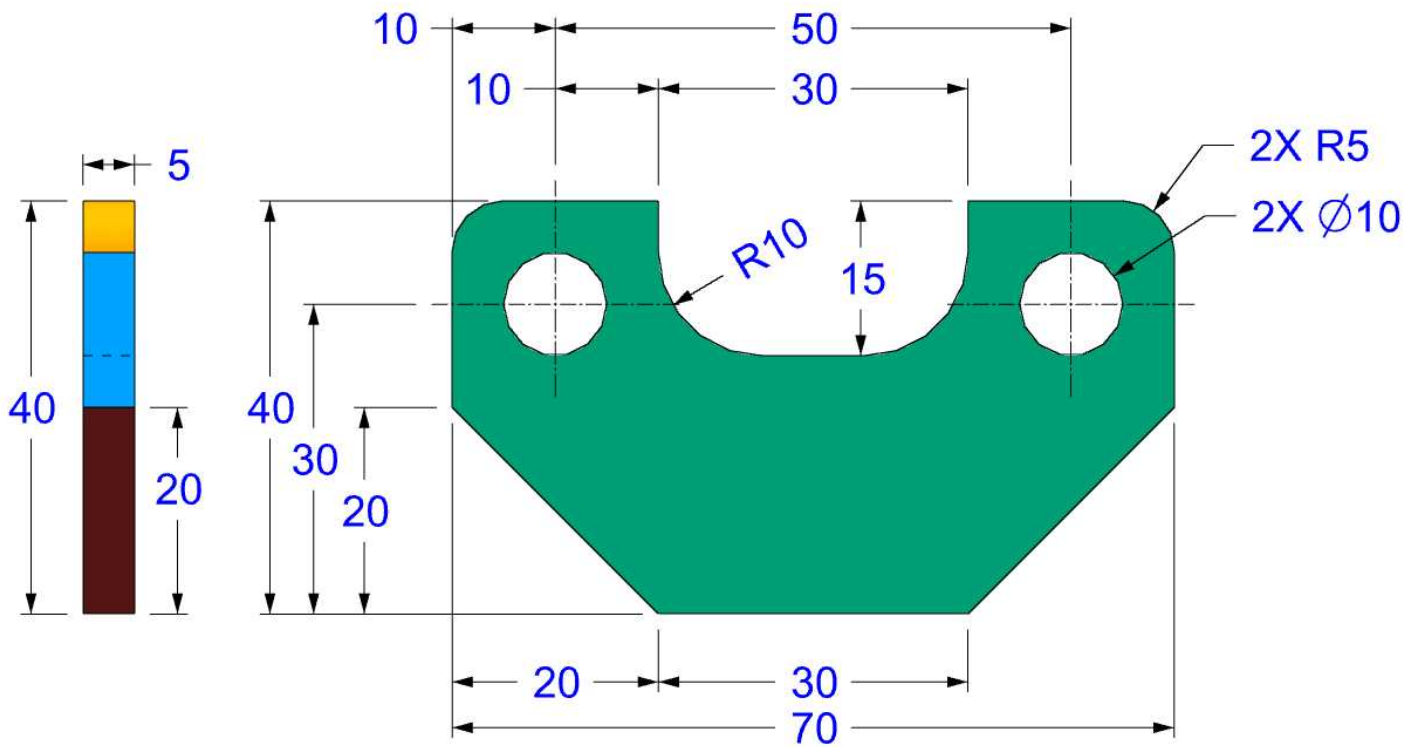
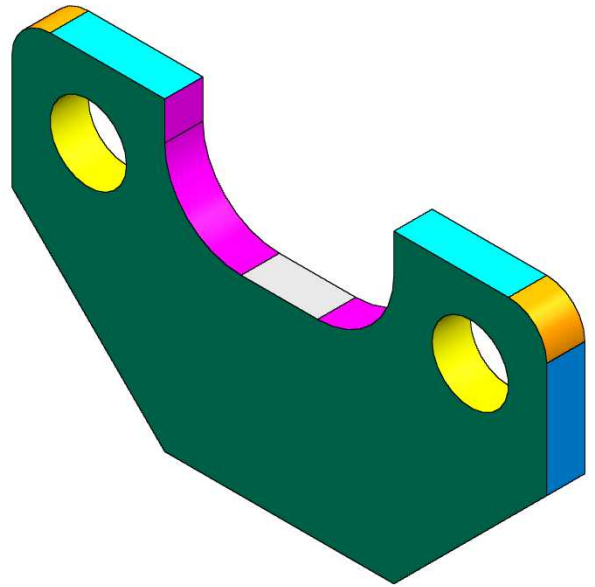
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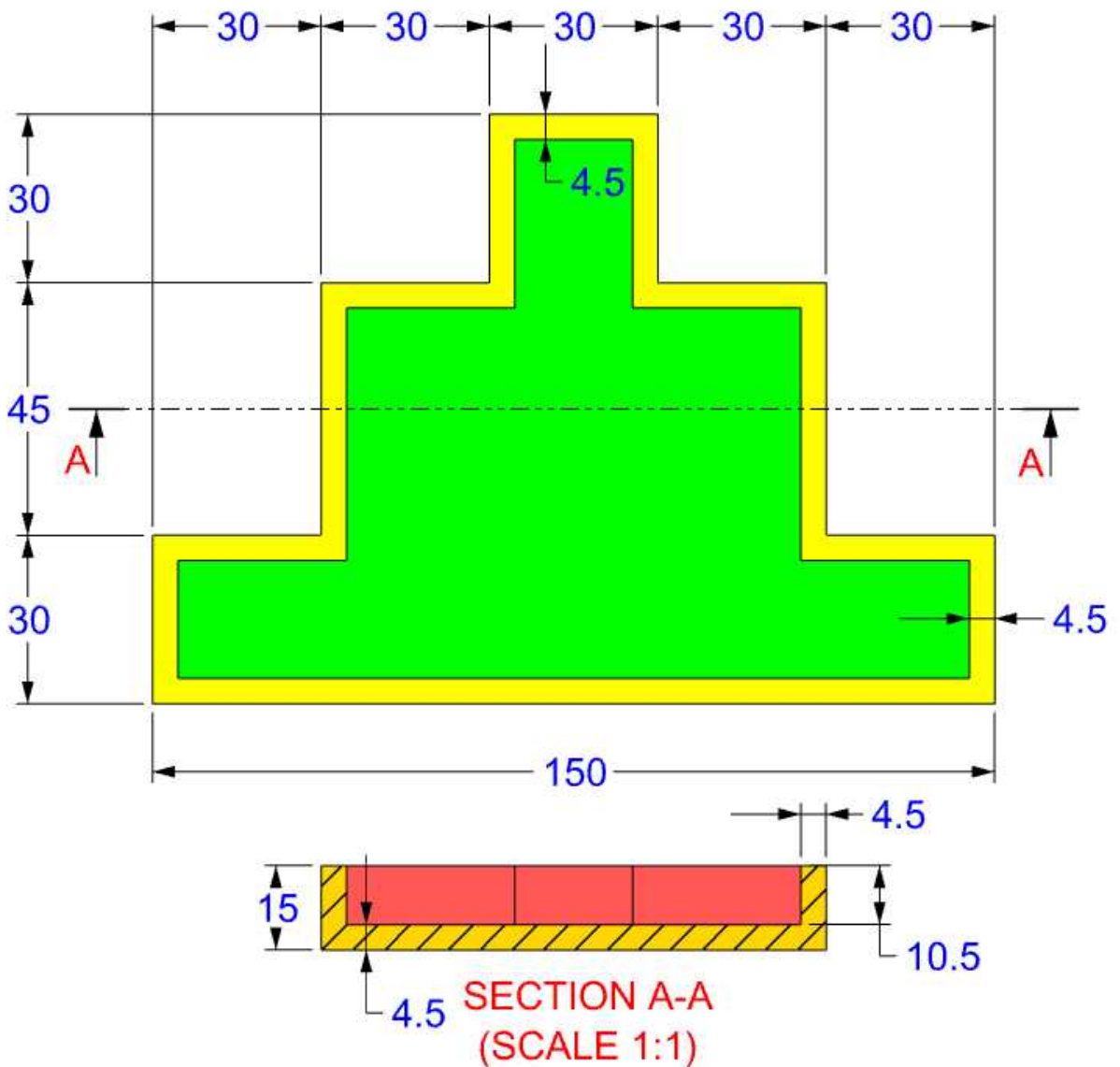
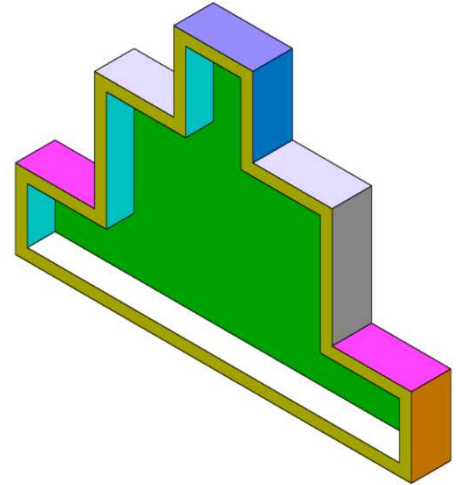
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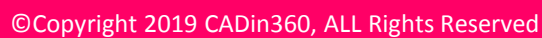
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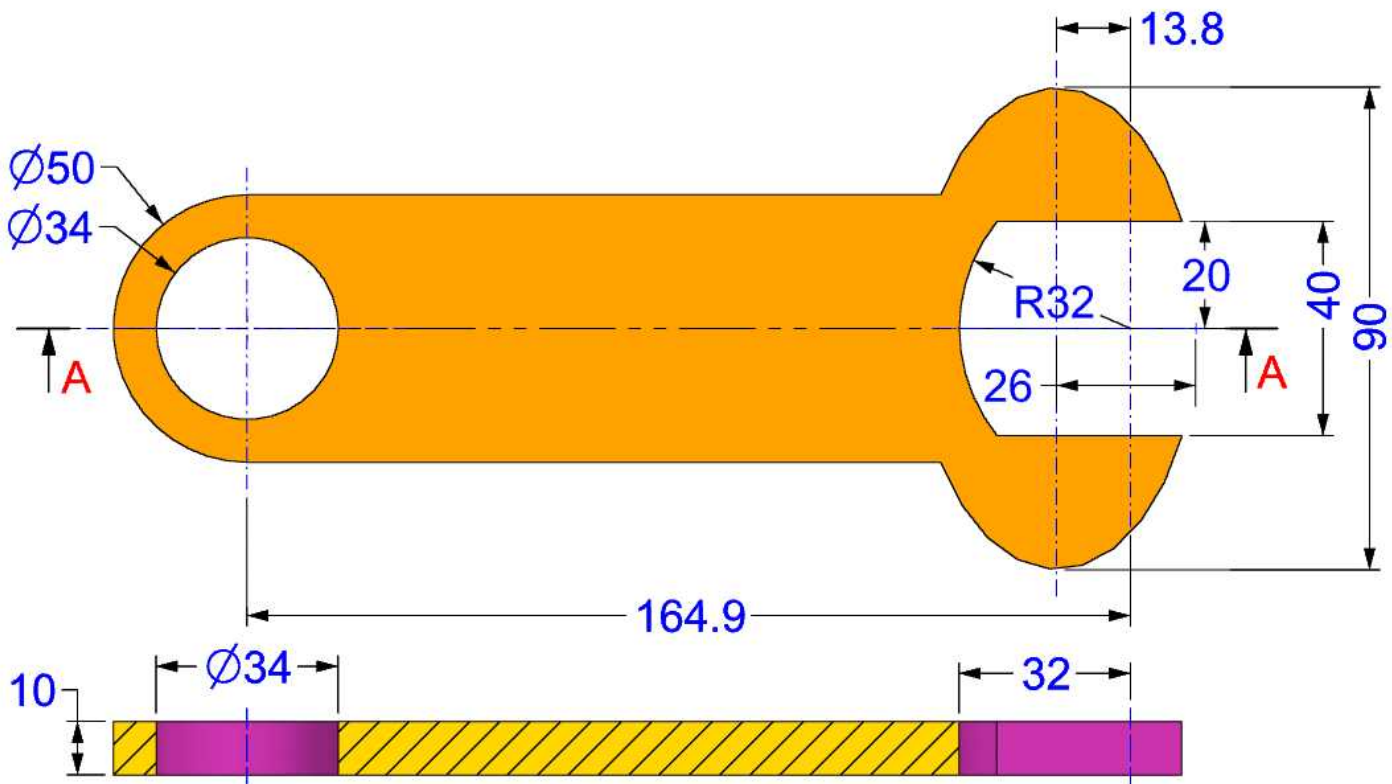
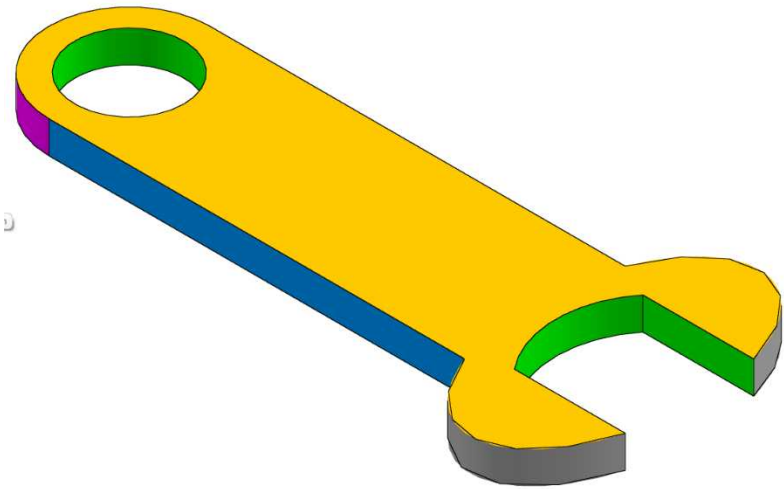
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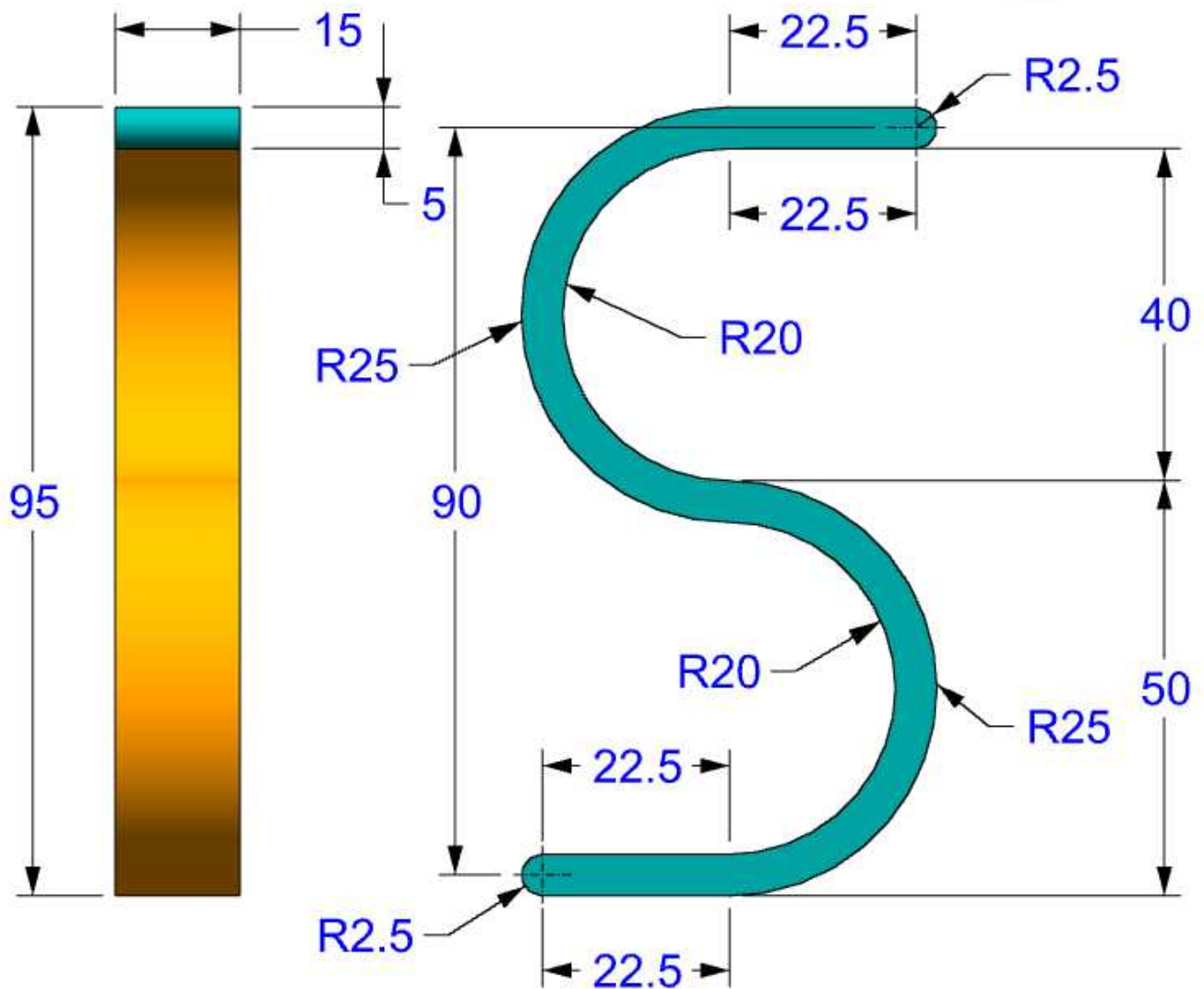
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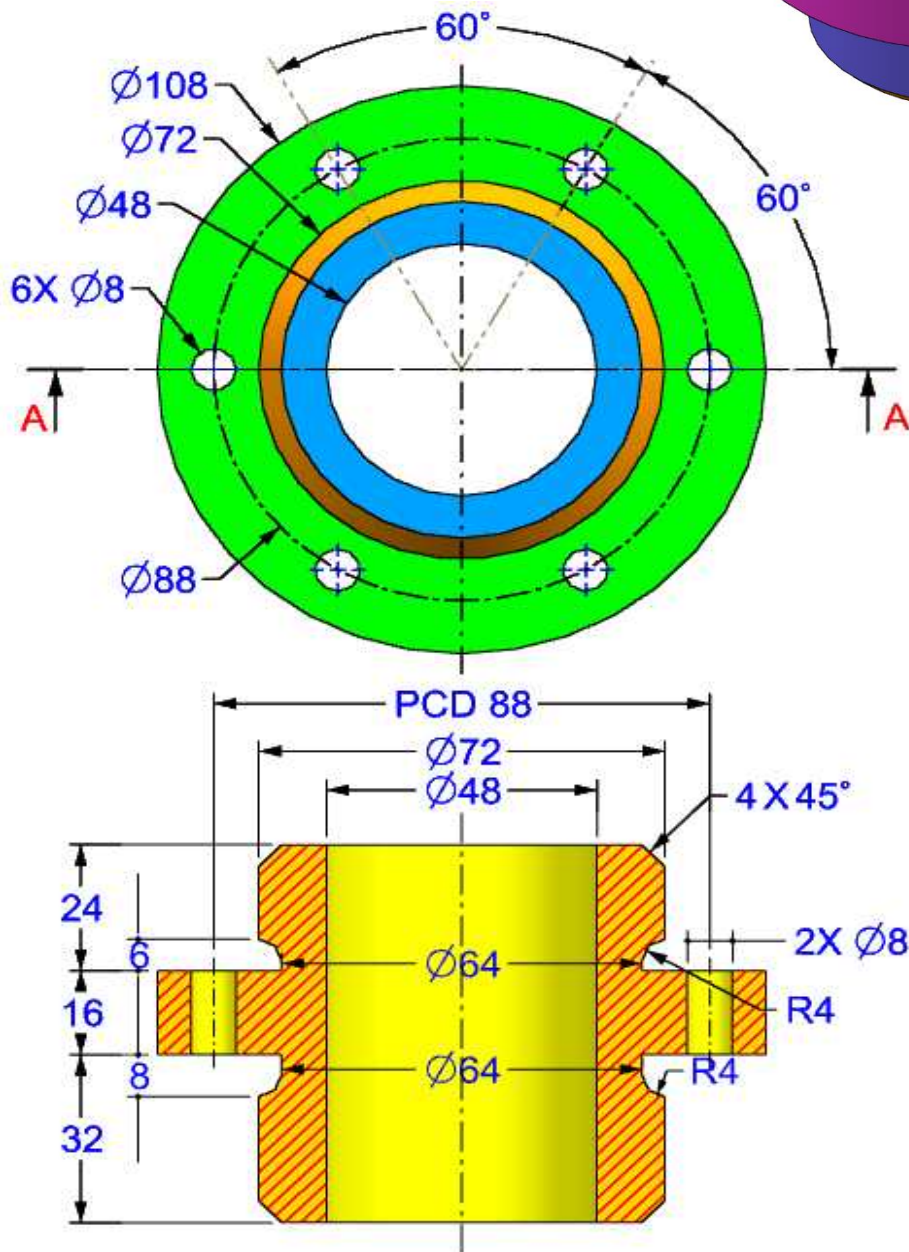
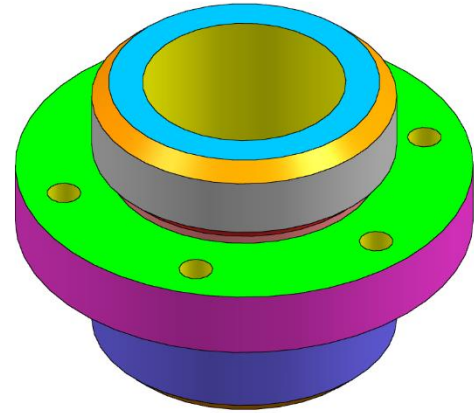


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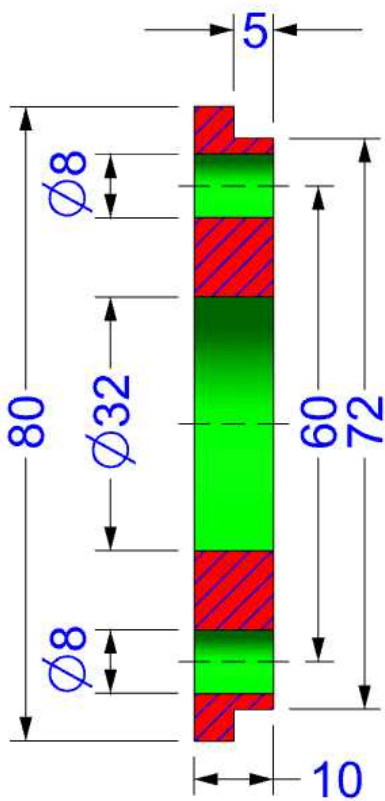
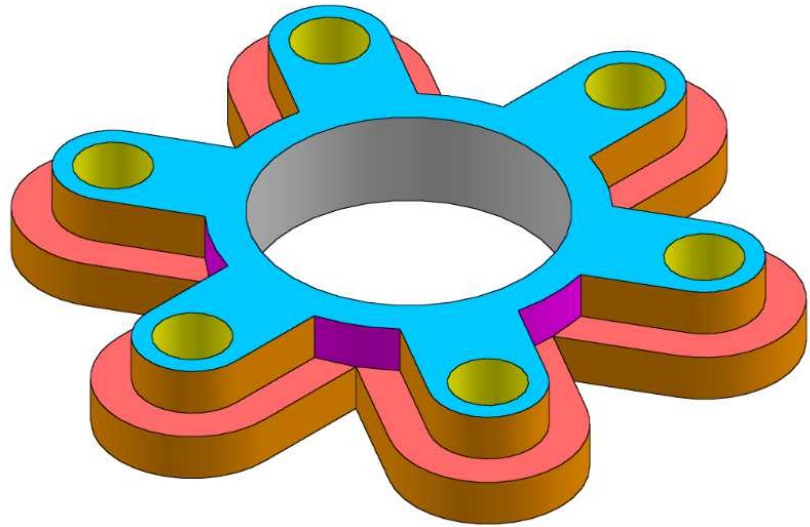
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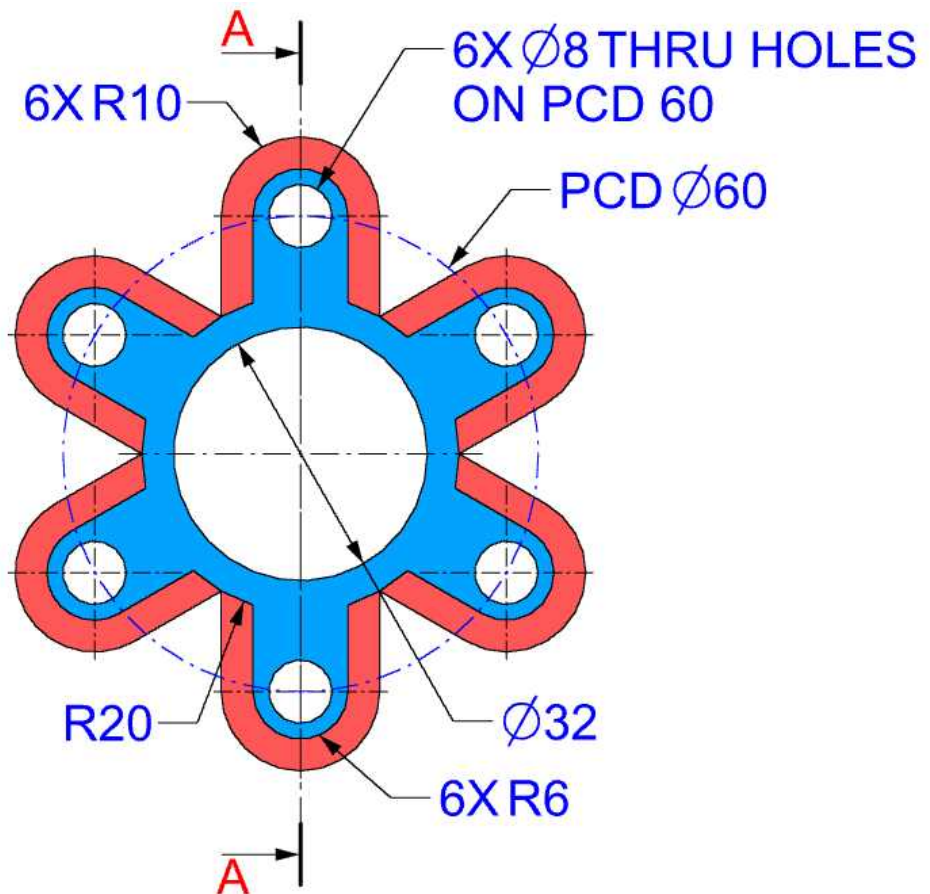


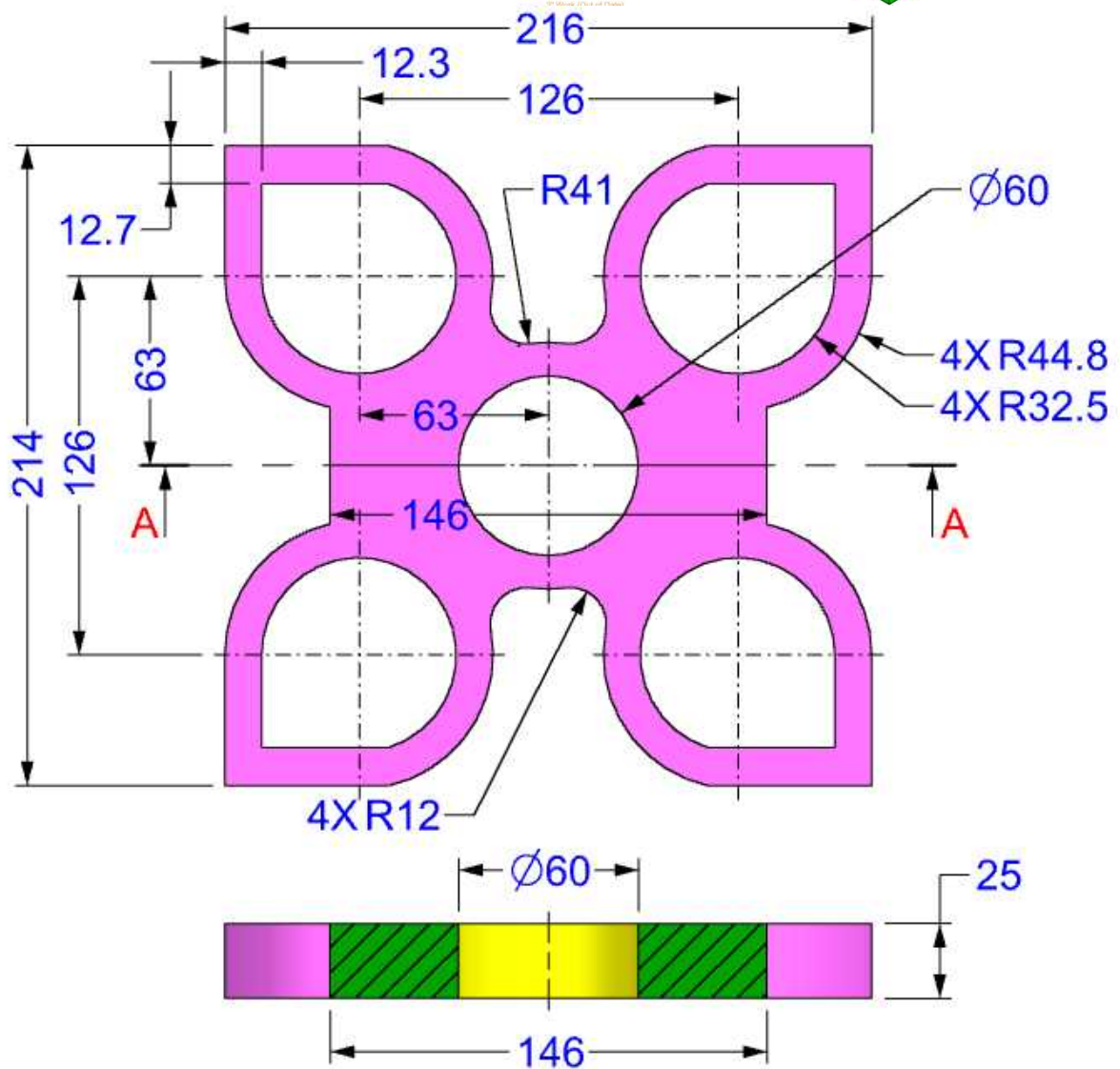
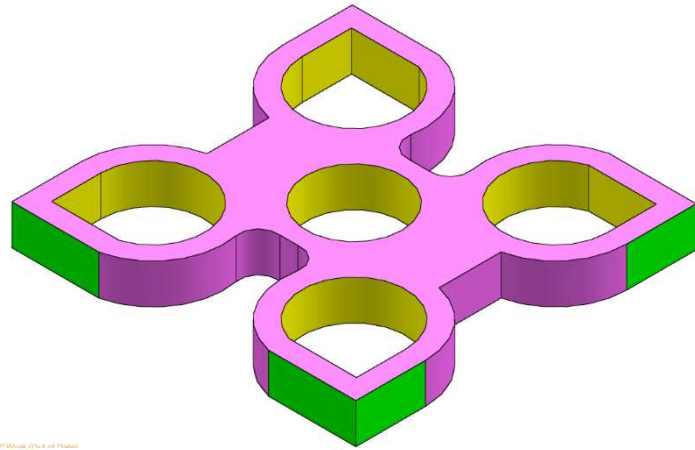
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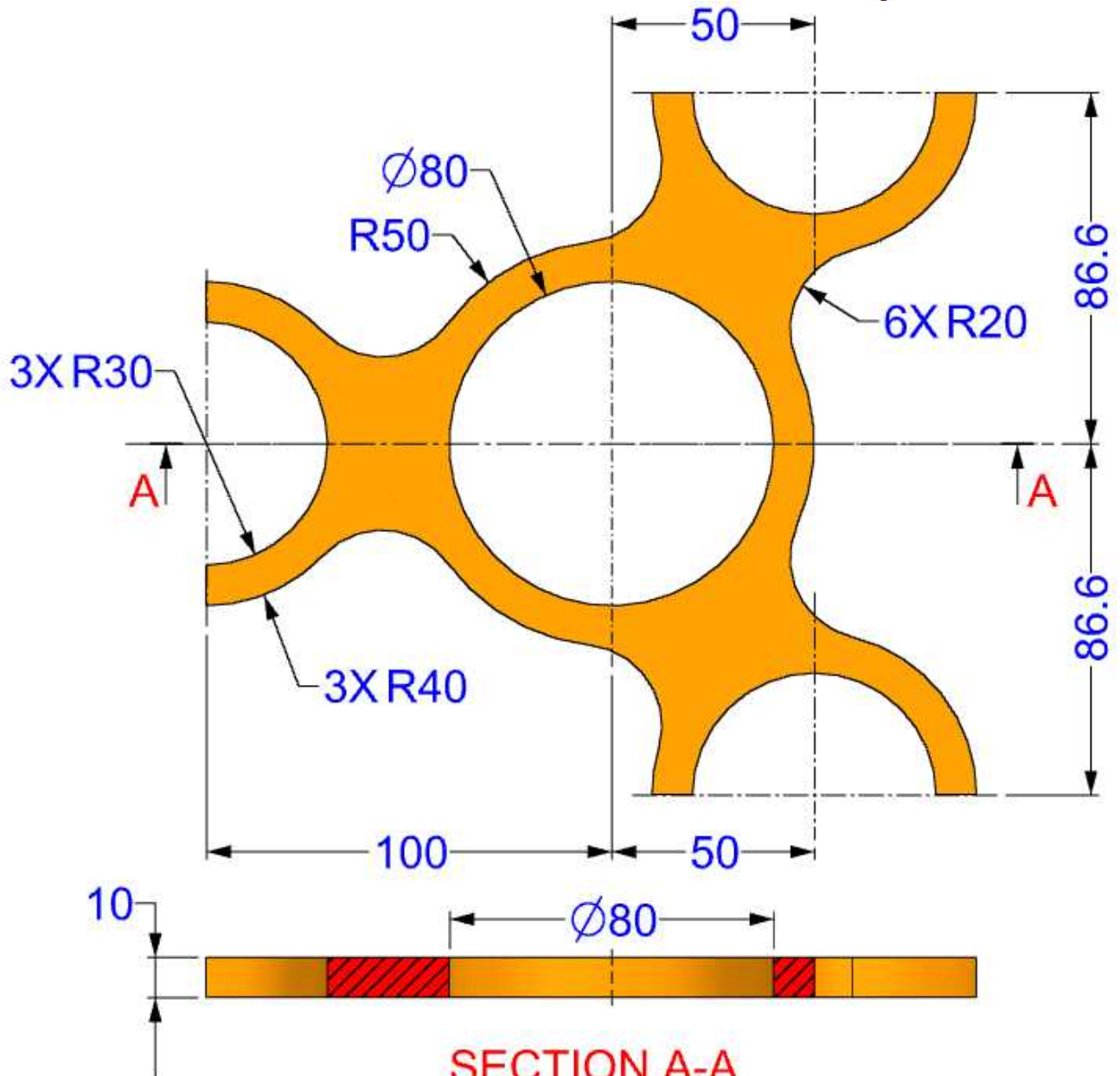
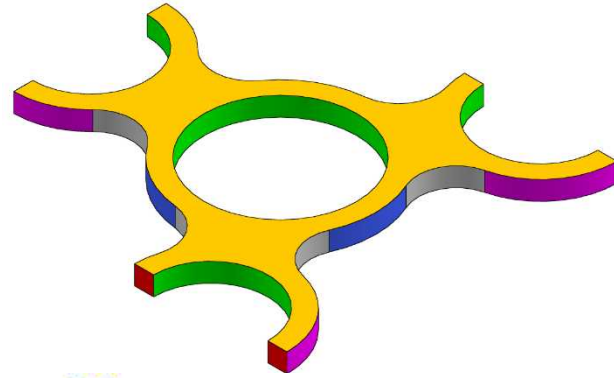
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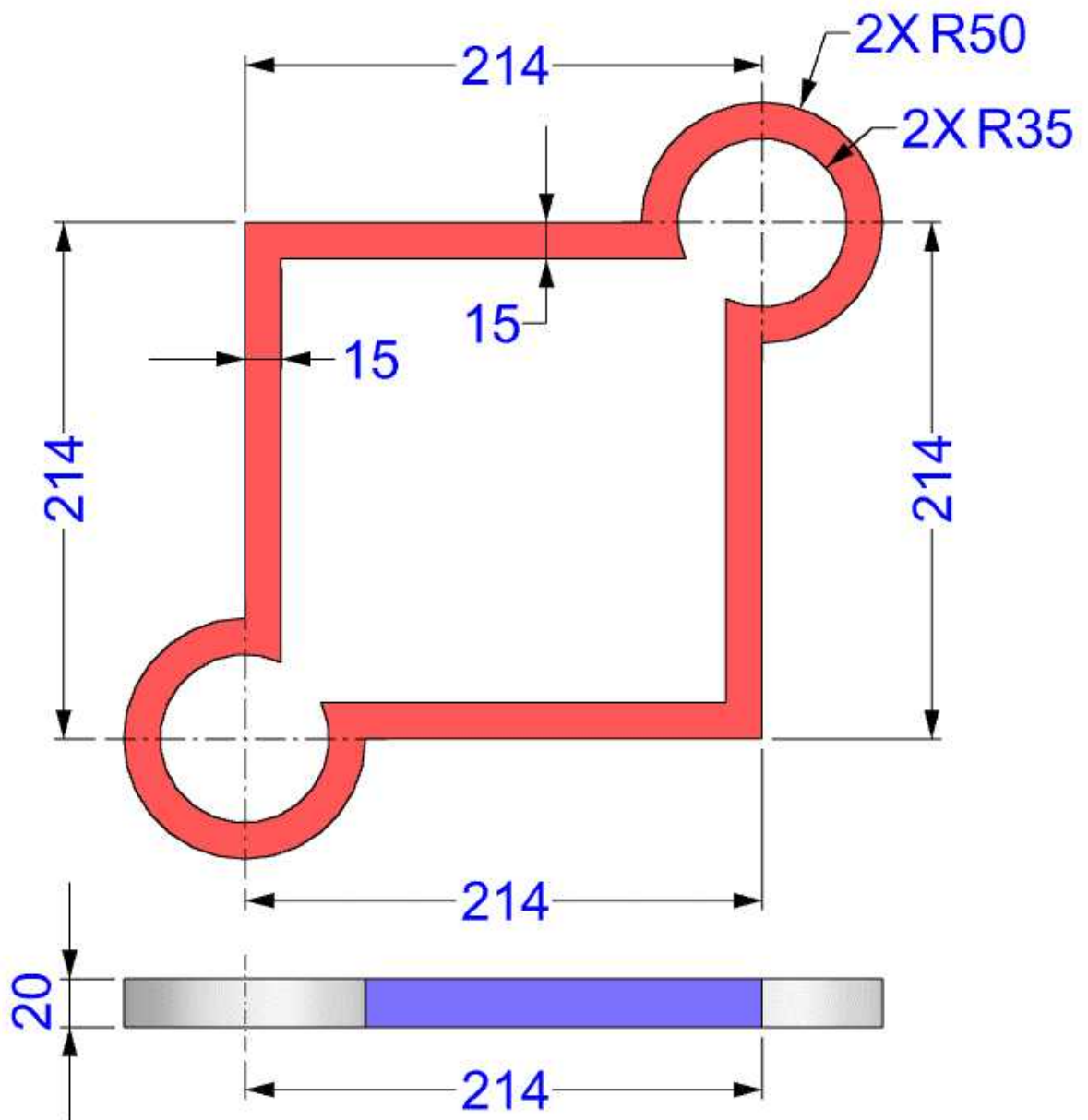
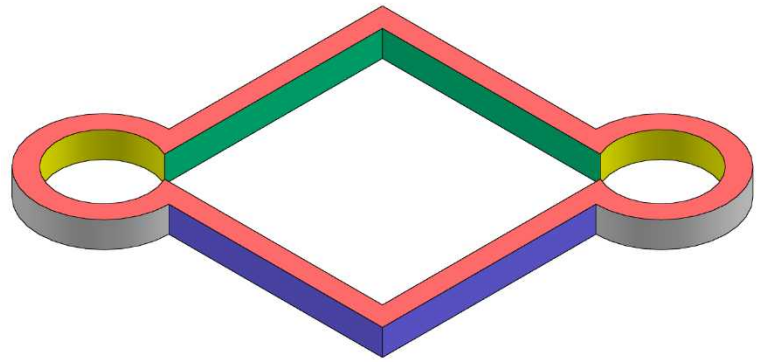


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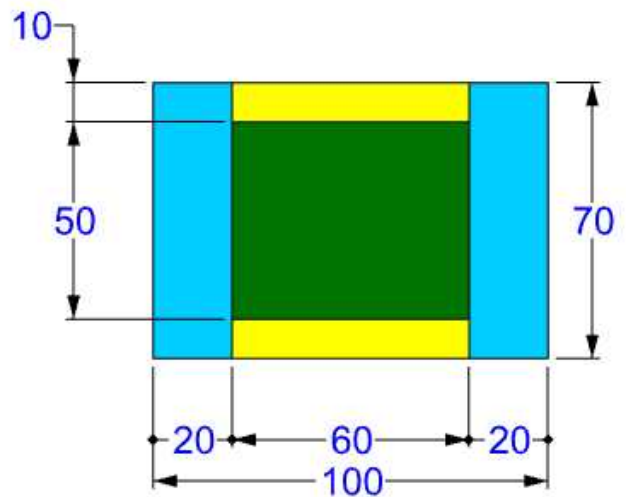
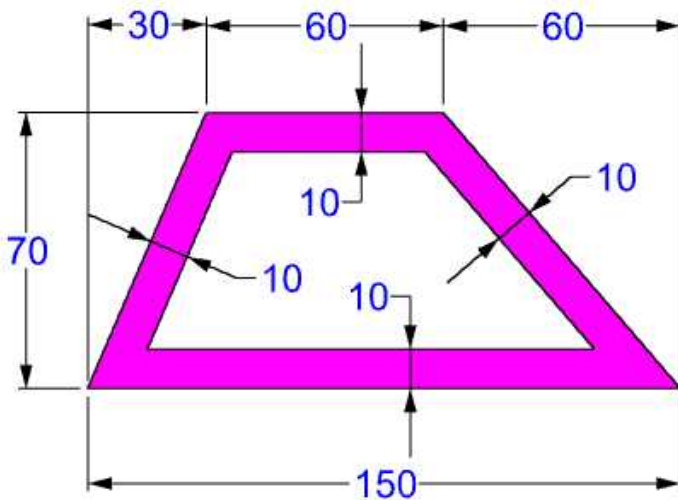
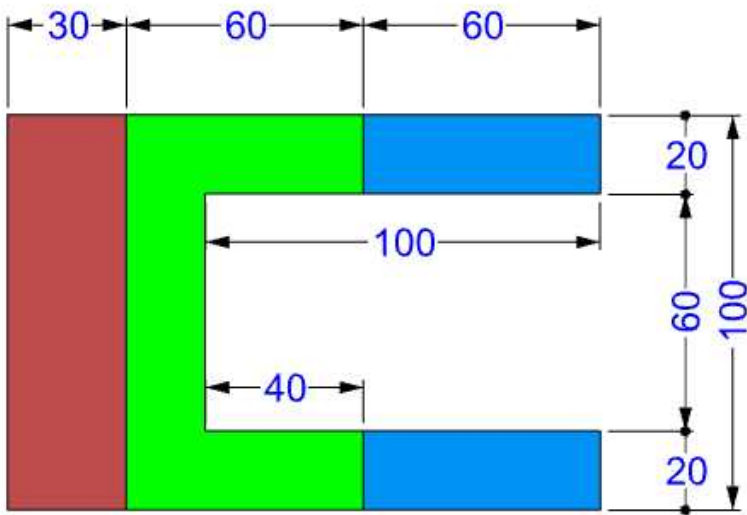
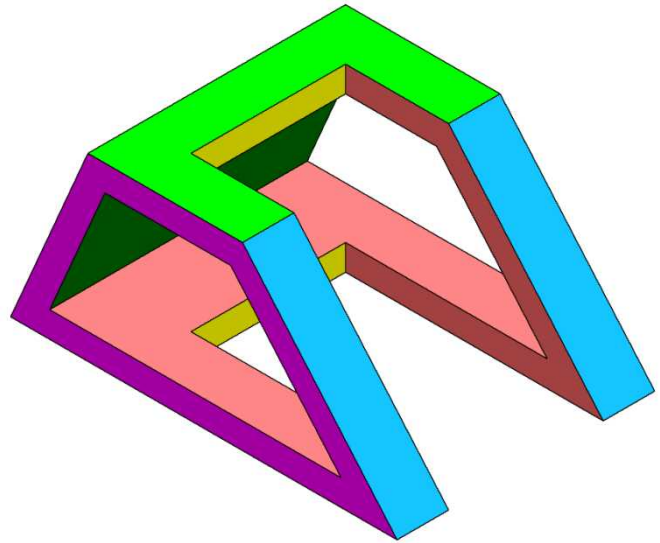


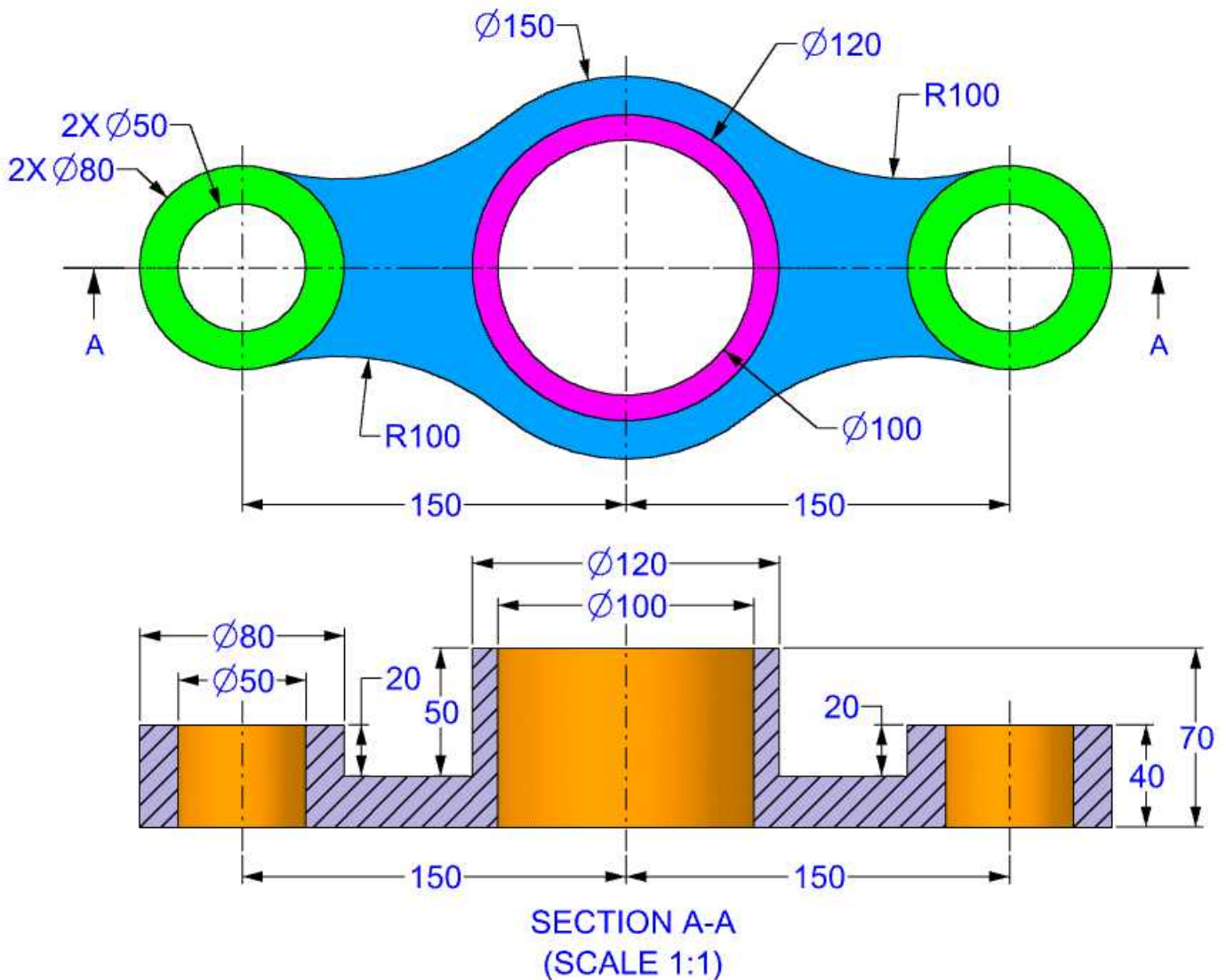
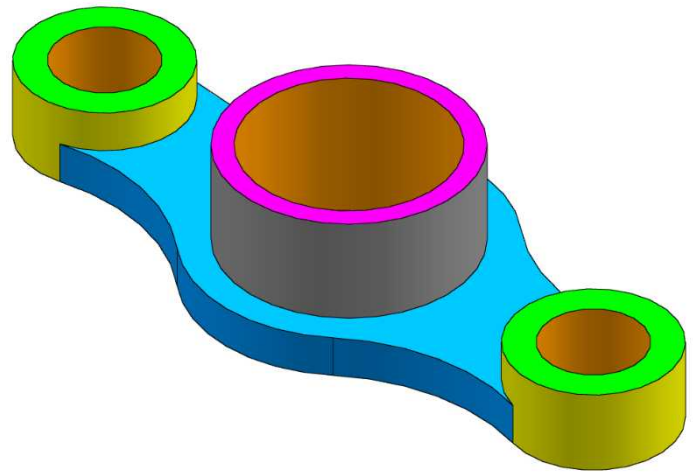
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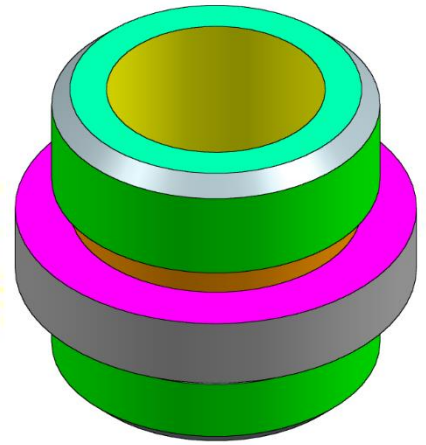
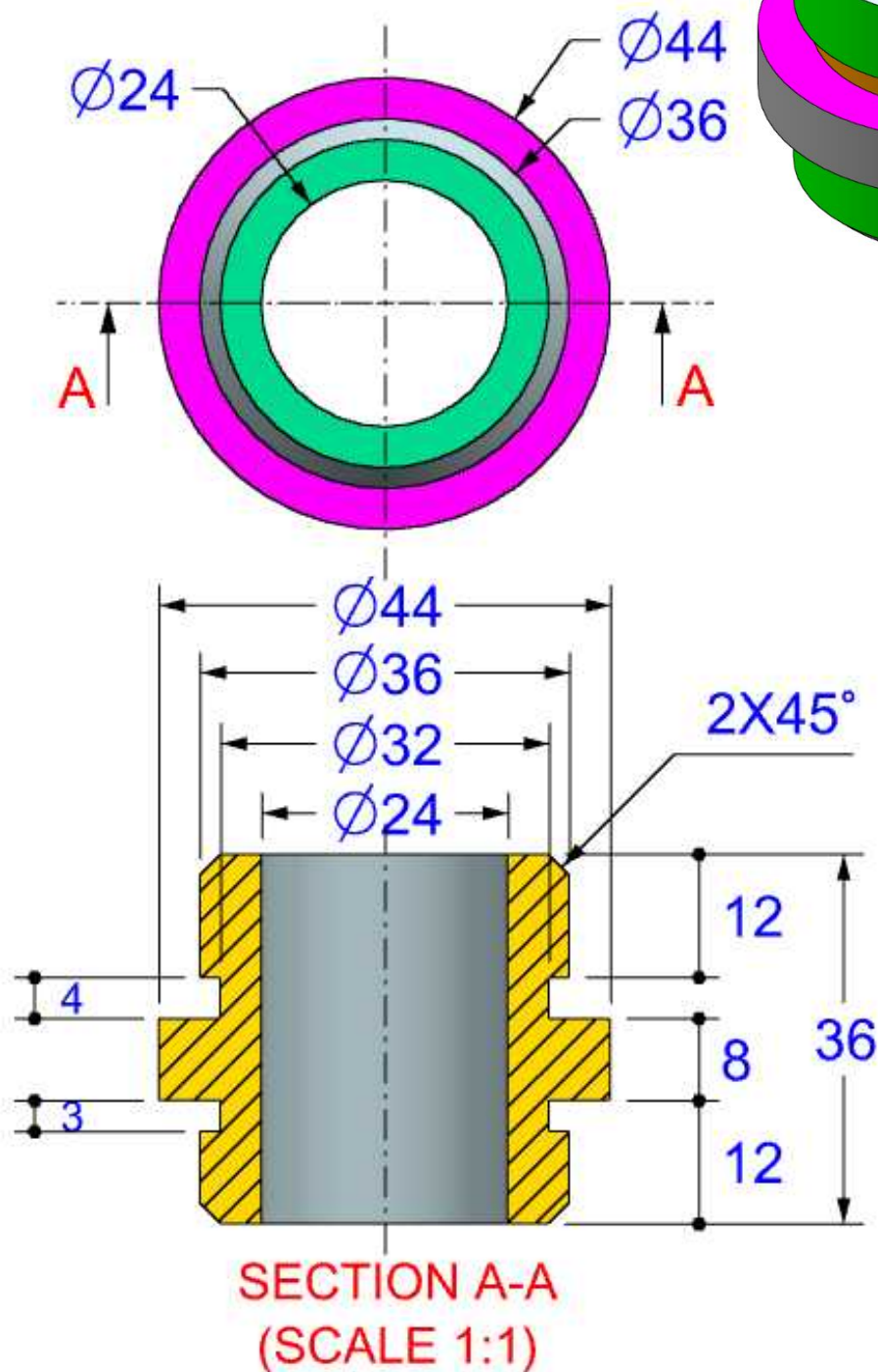
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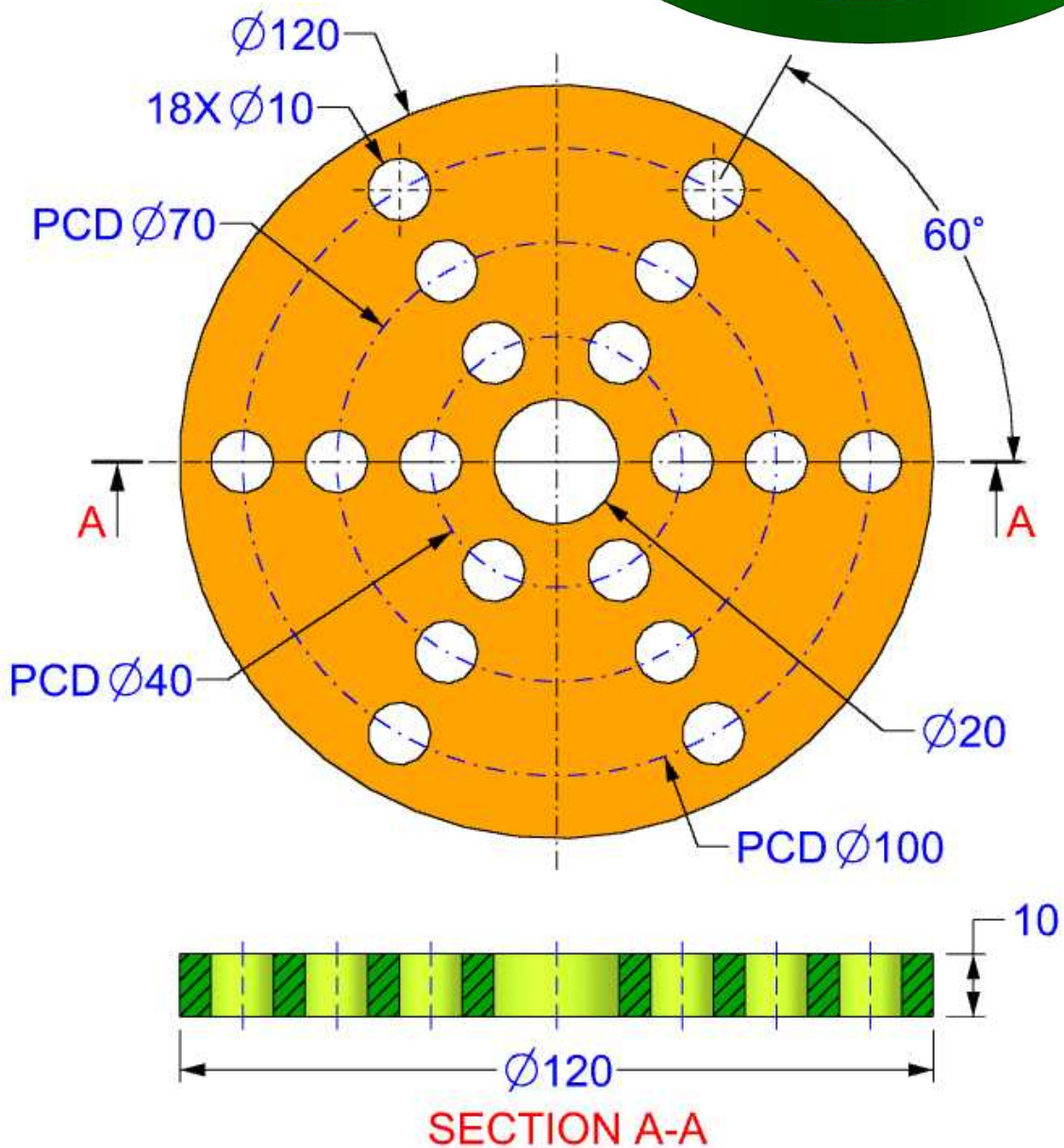
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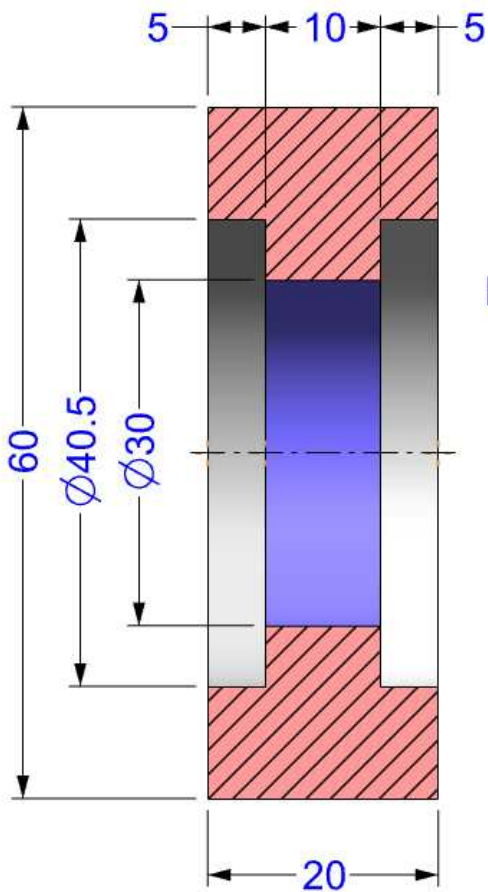
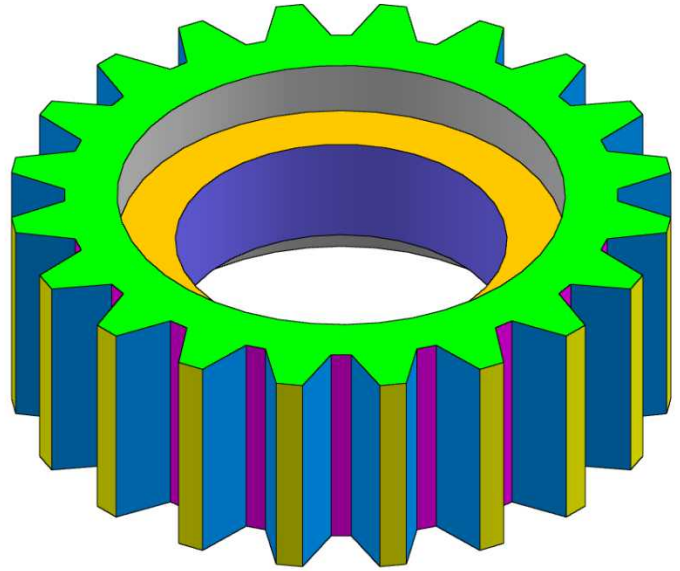
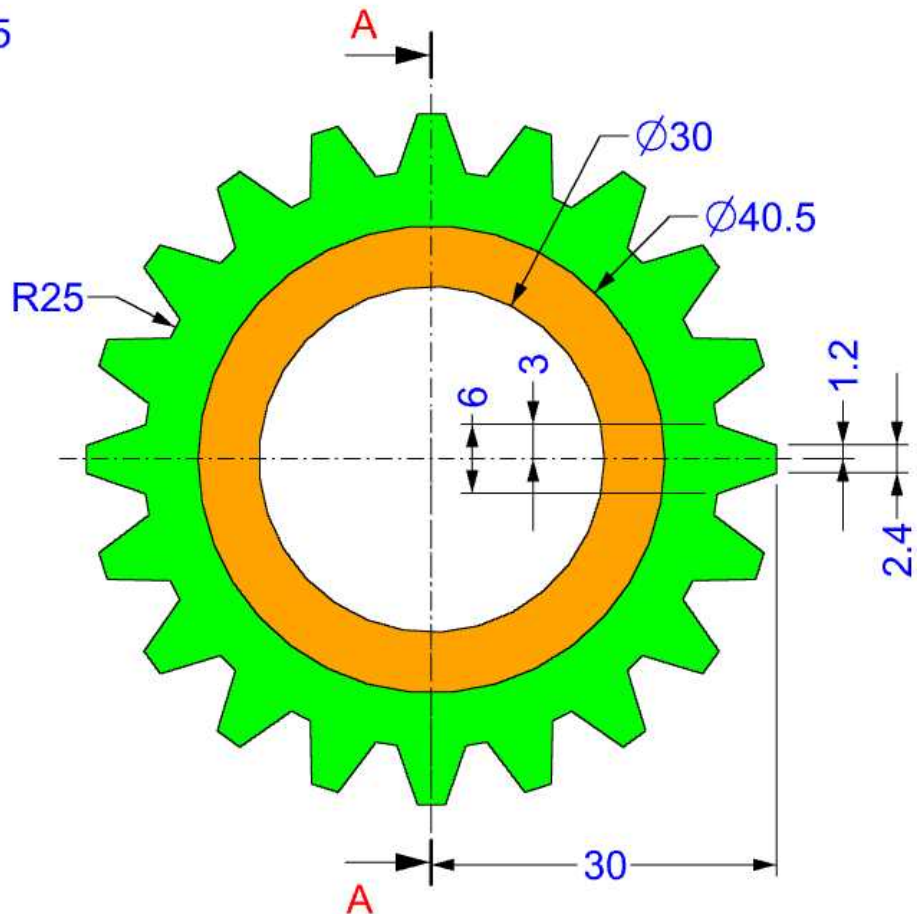
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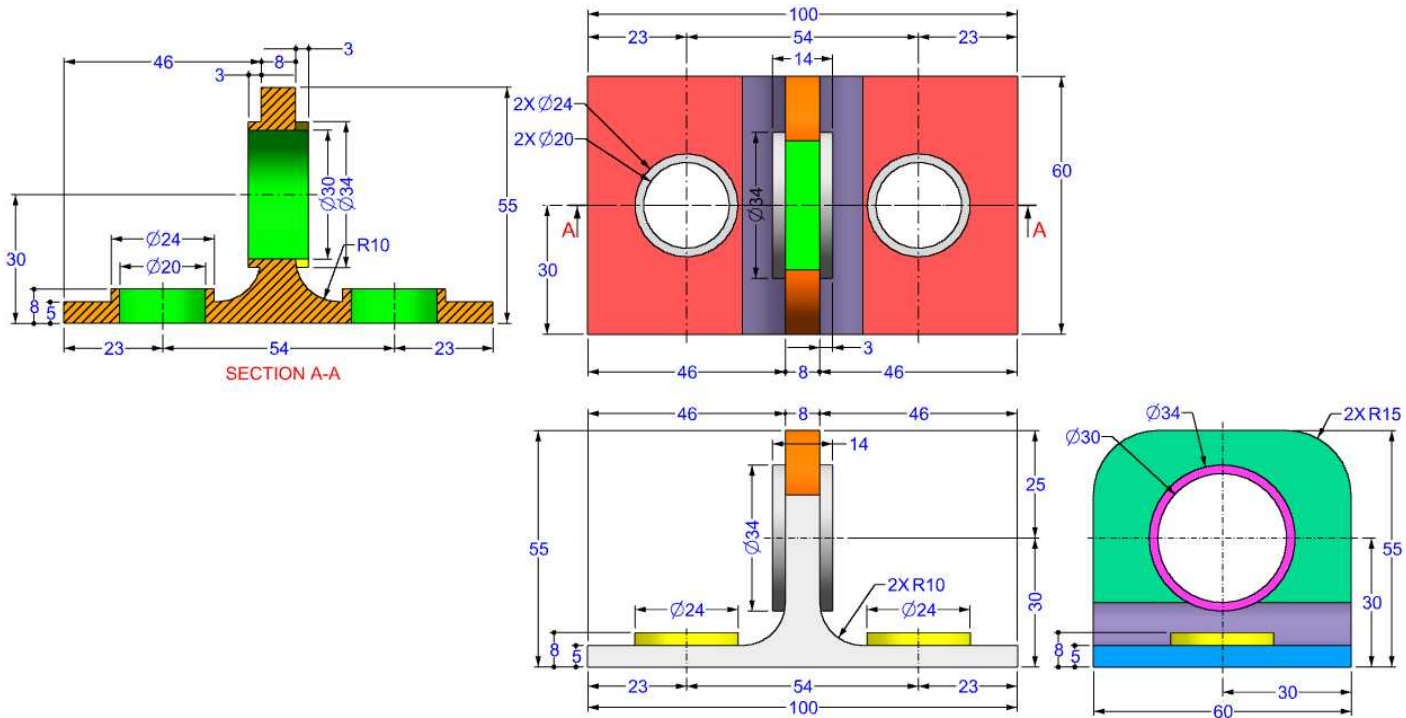
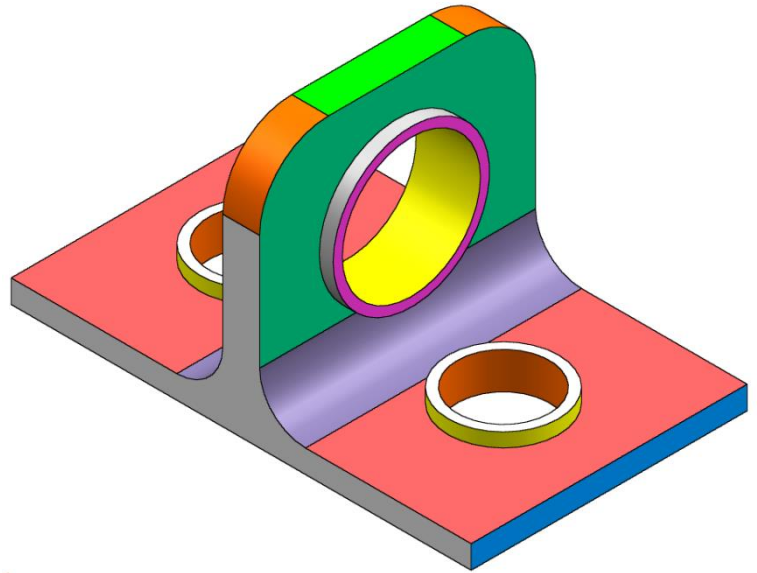
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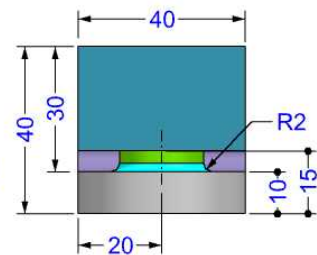
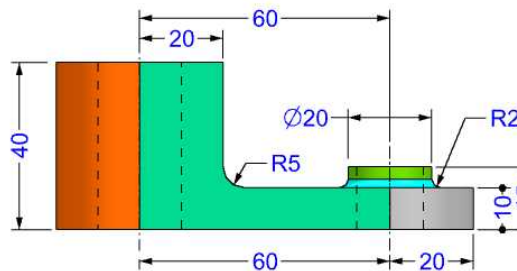
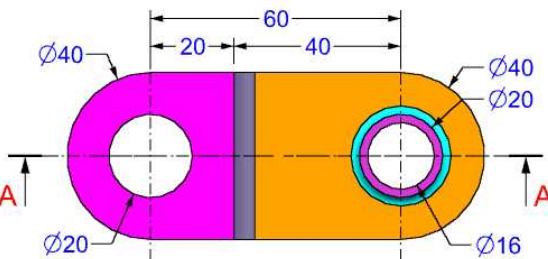
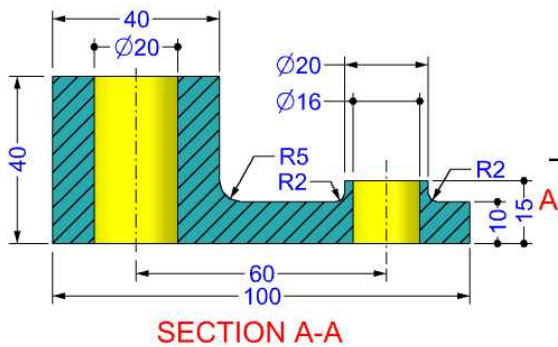
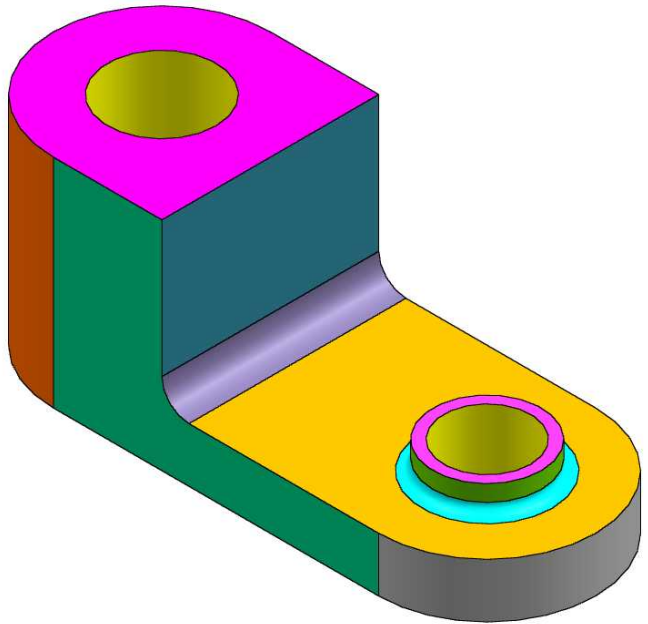
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EXERCISE-28

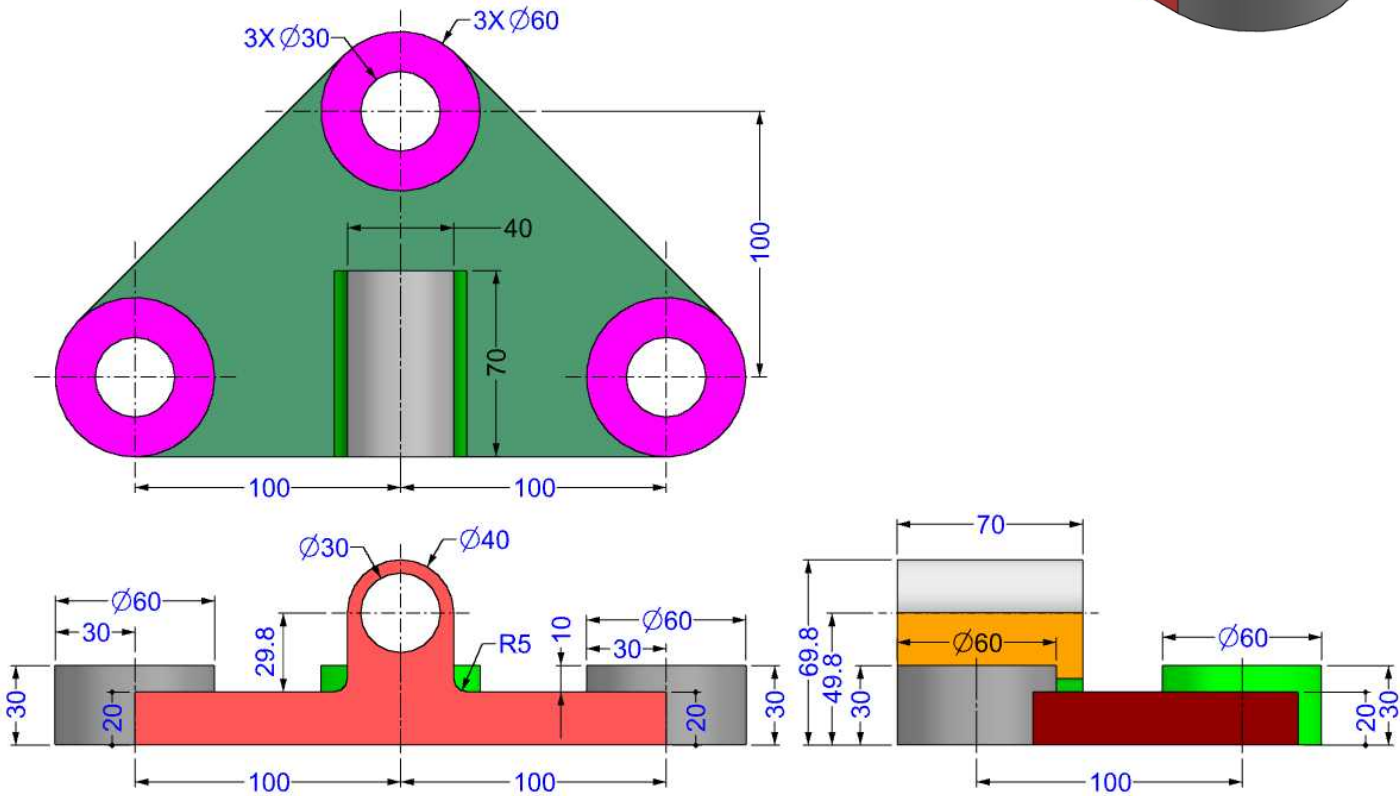
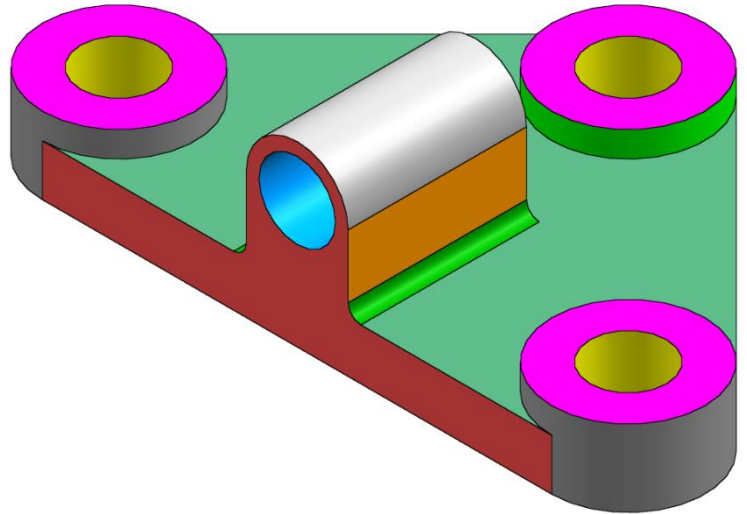
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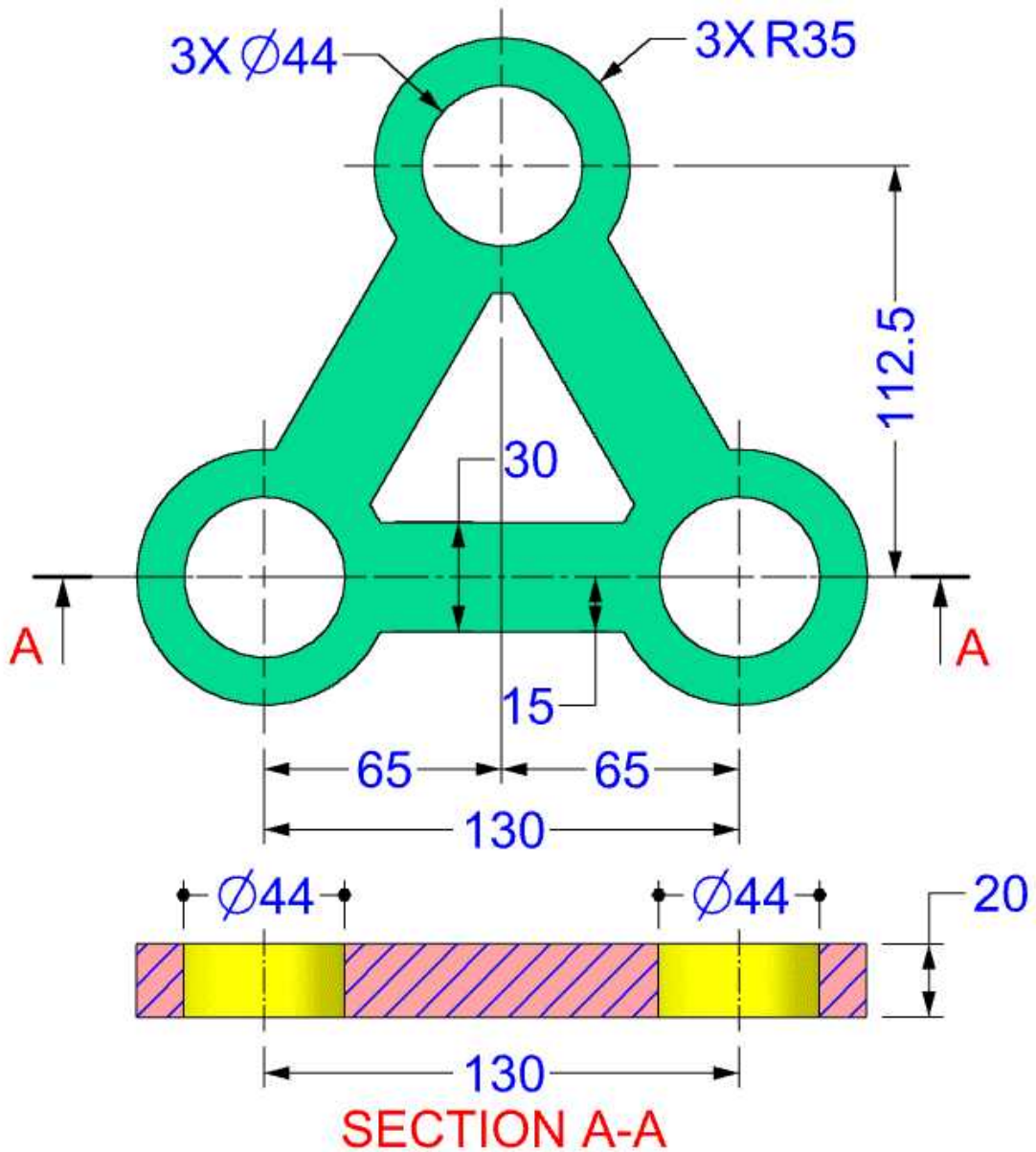
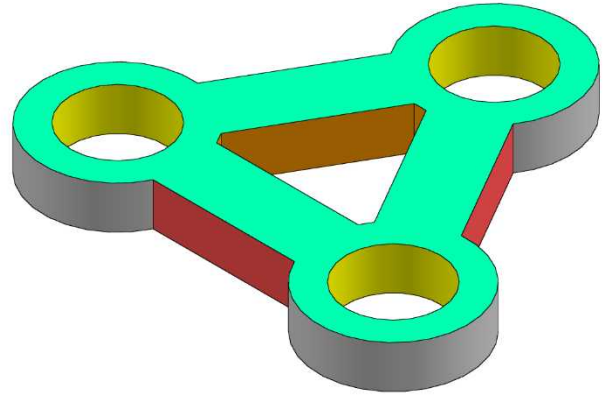
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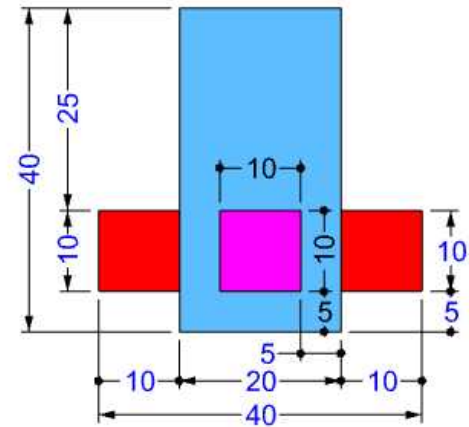
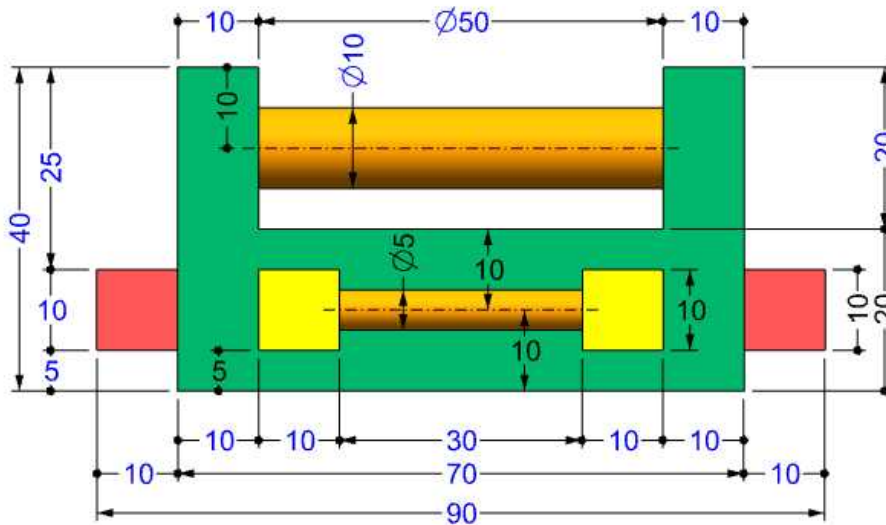
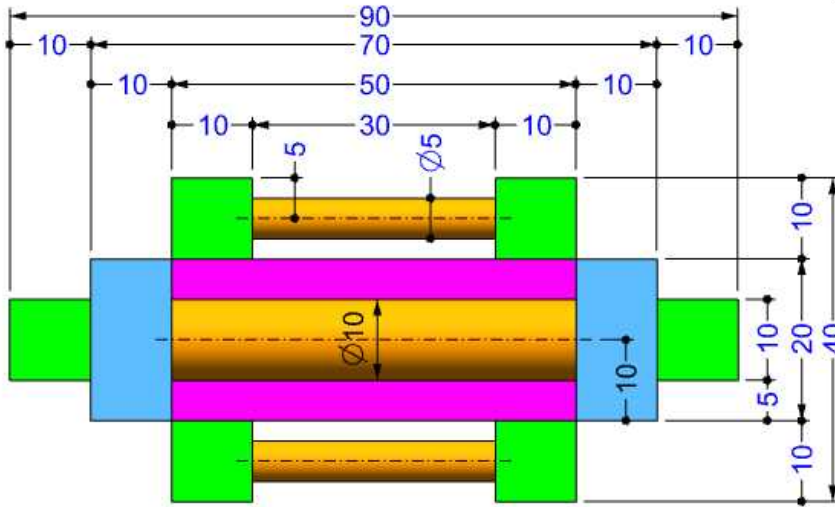
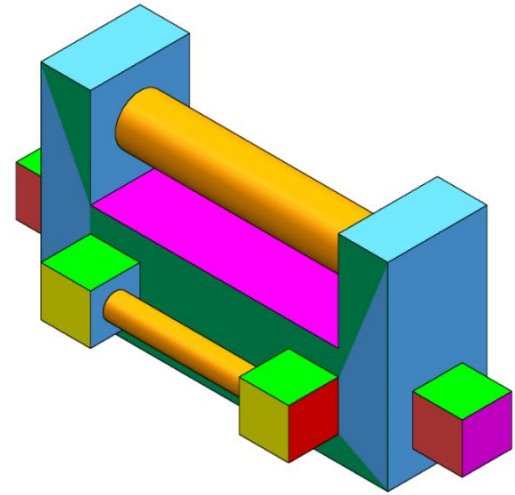


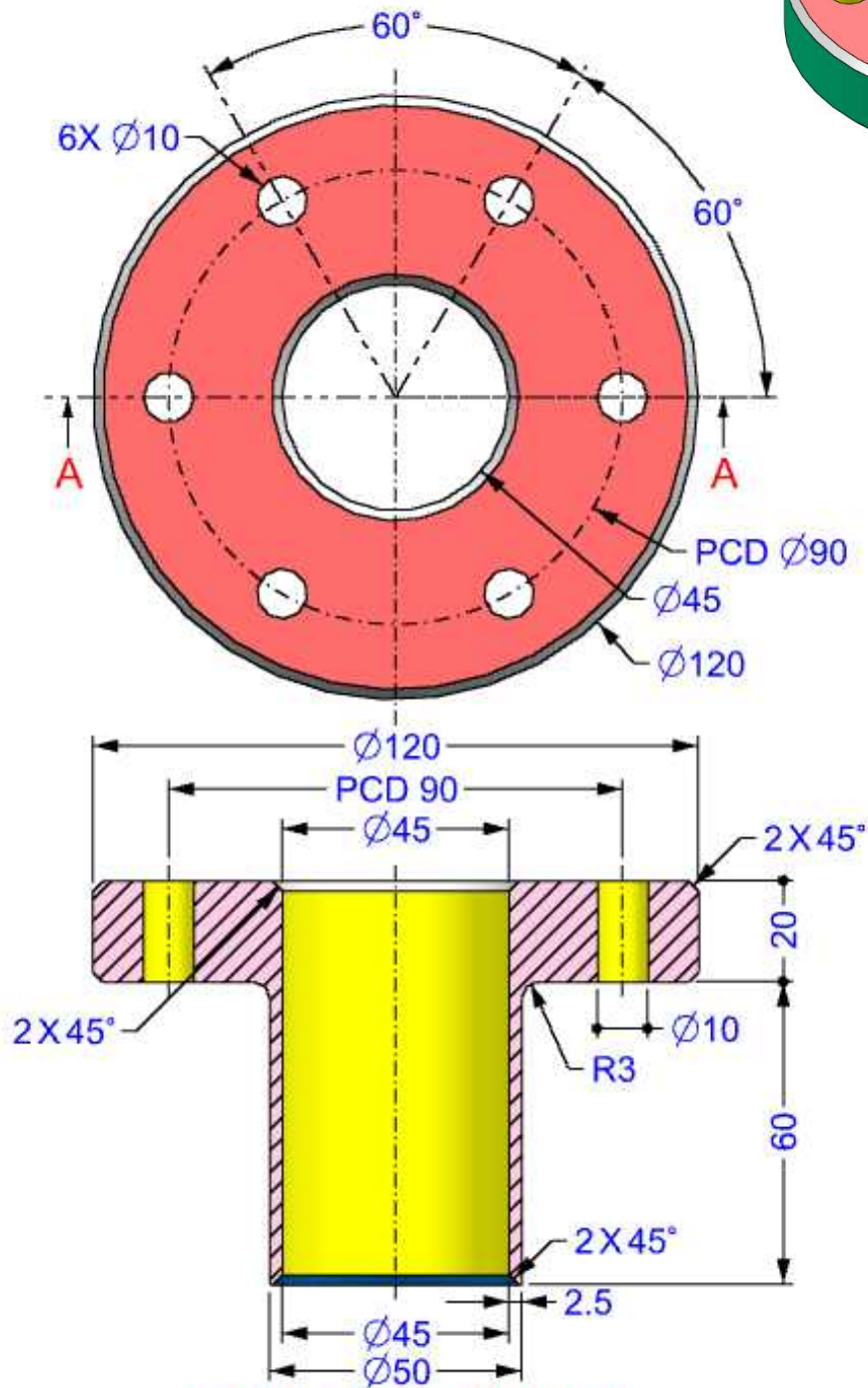
EXERCISE-31

EXERCISE-32



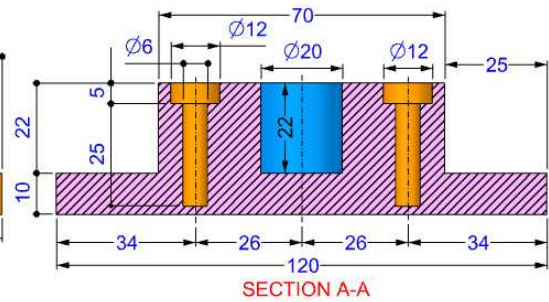
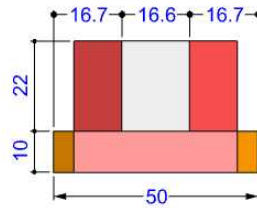
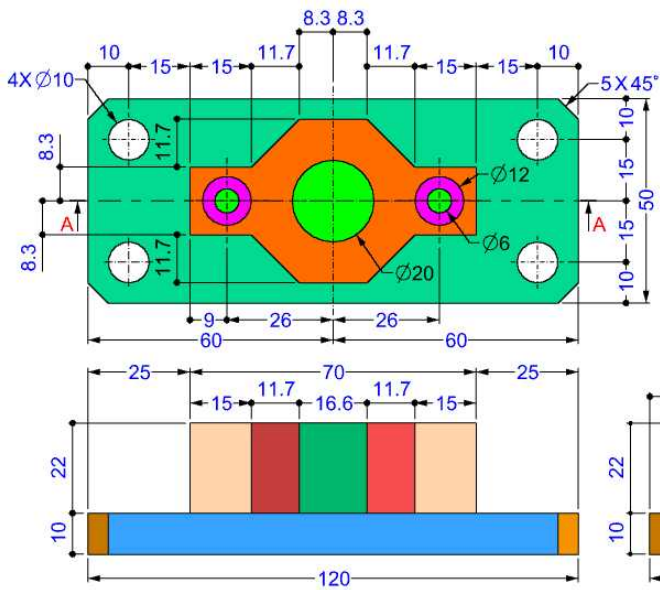
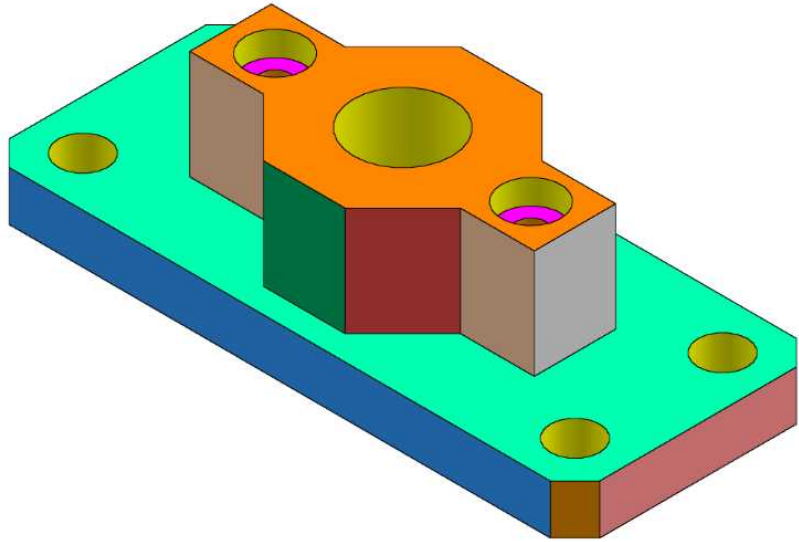
EXERCISE-33

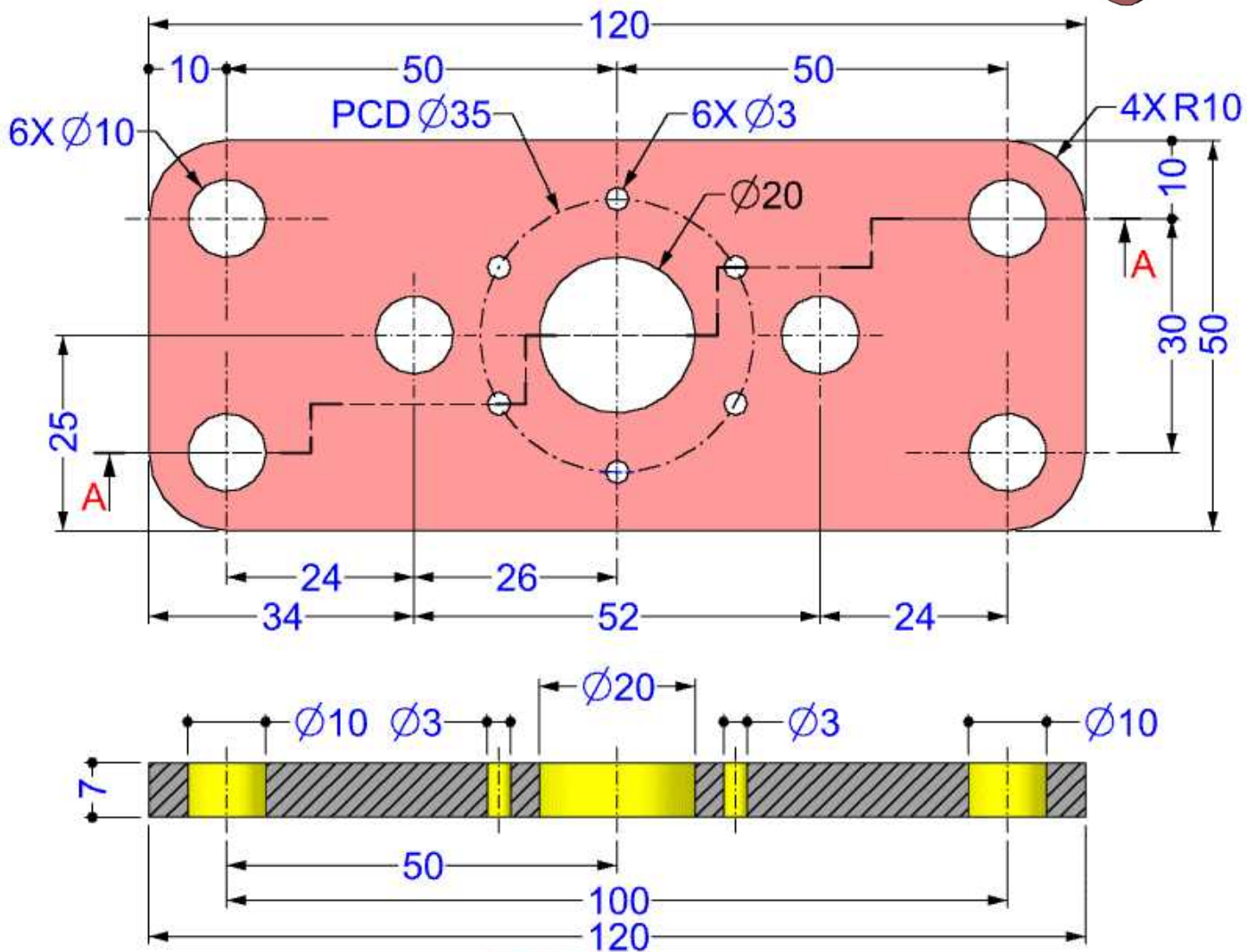
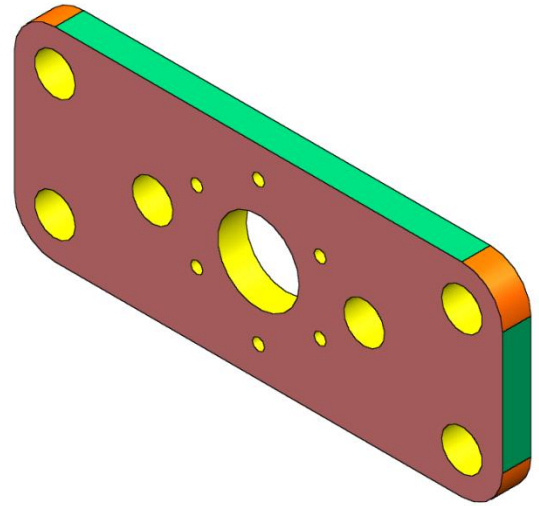
EXERCISE-35

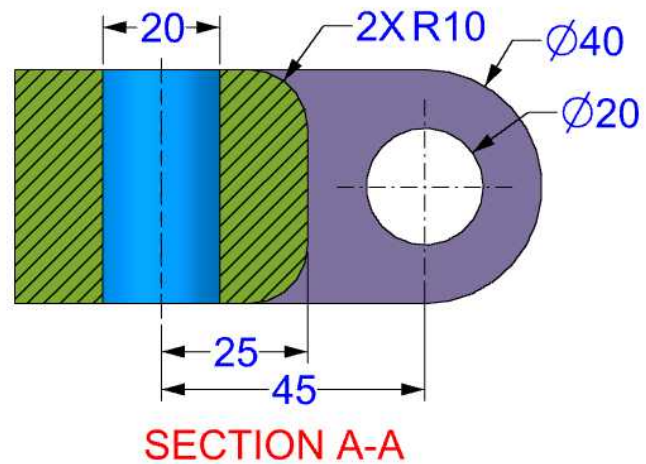
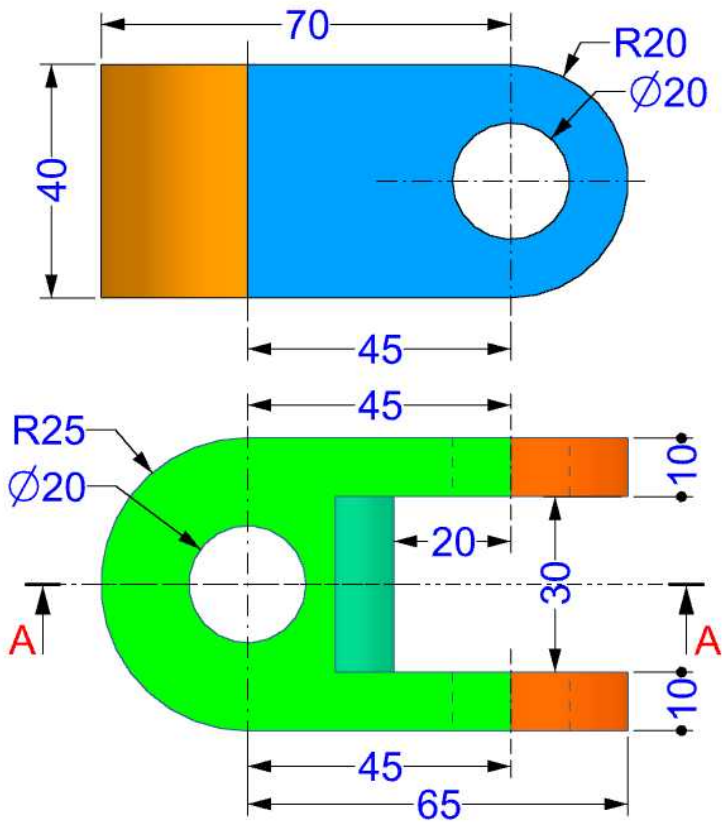
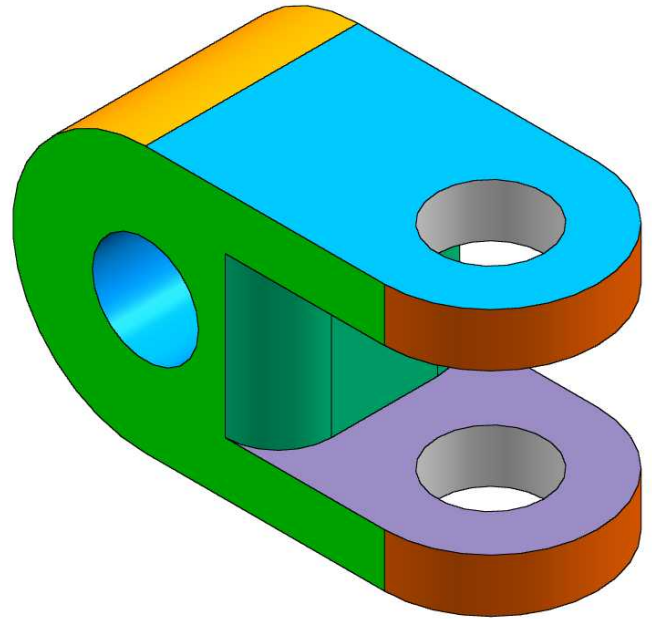


(SCALE 1:1) SECTION A-A

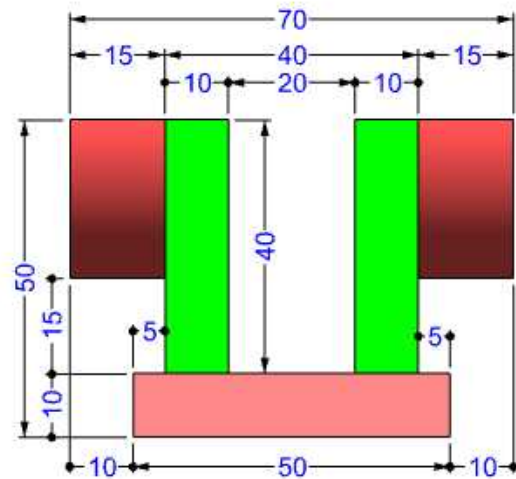
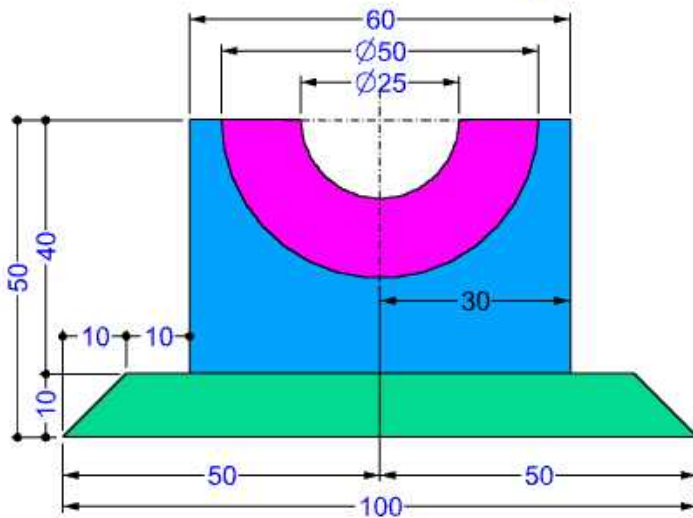
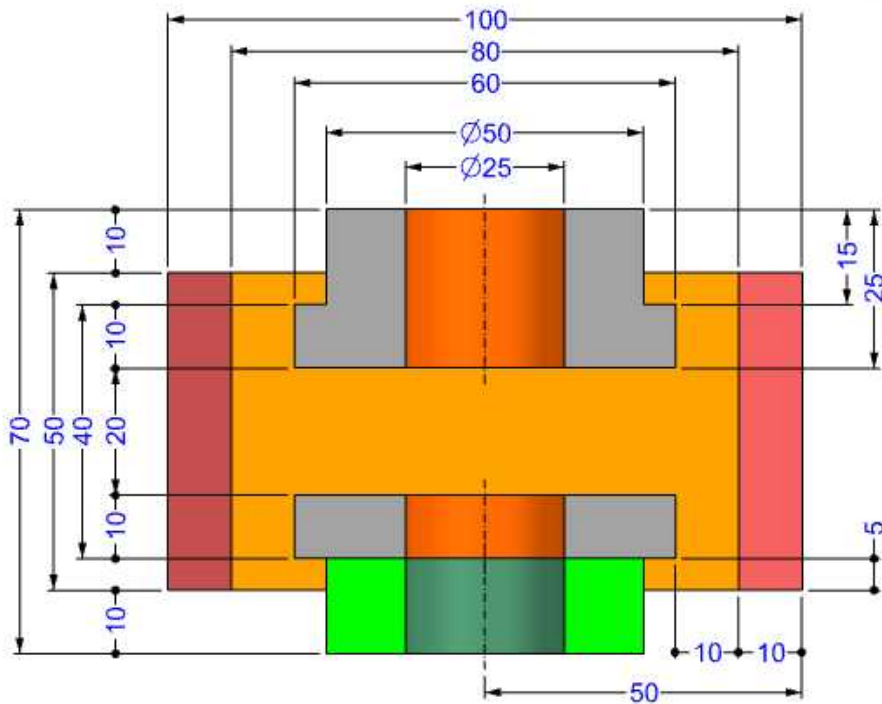
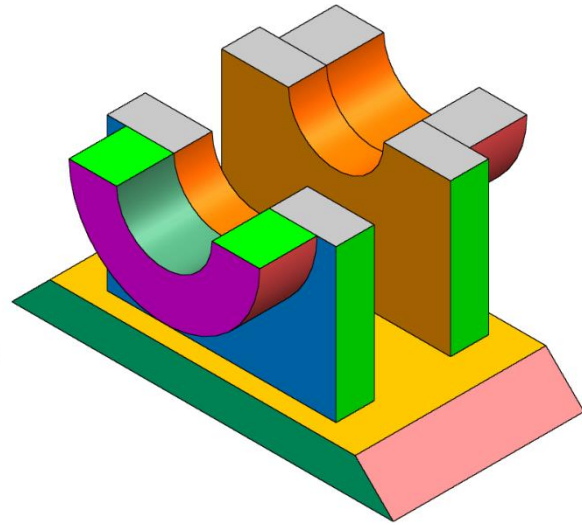
EXERCISE-37

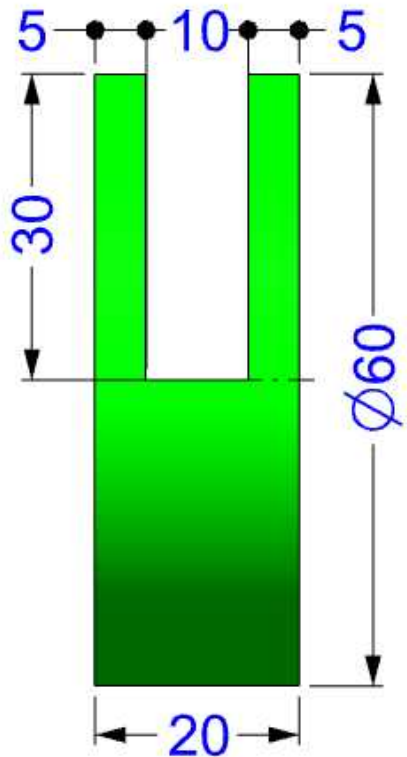
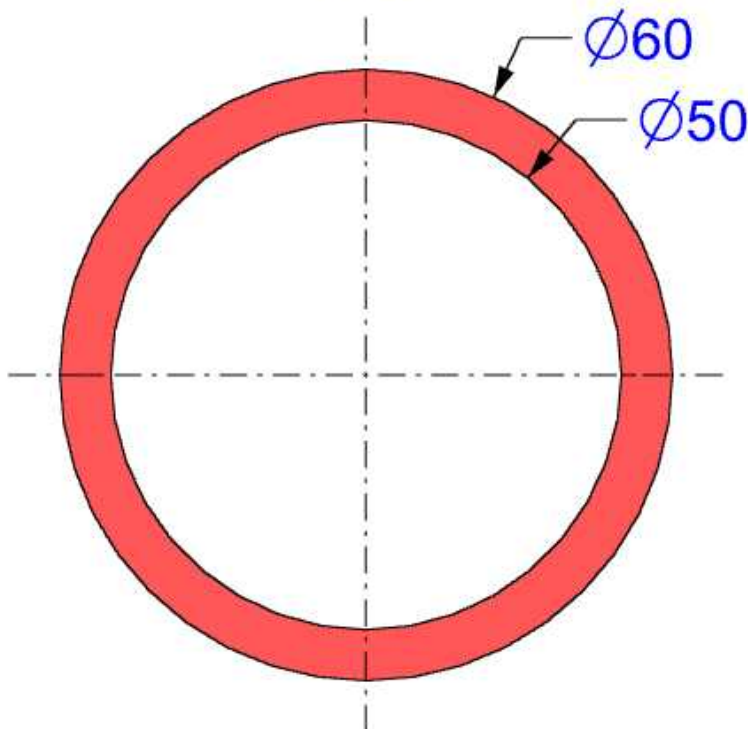
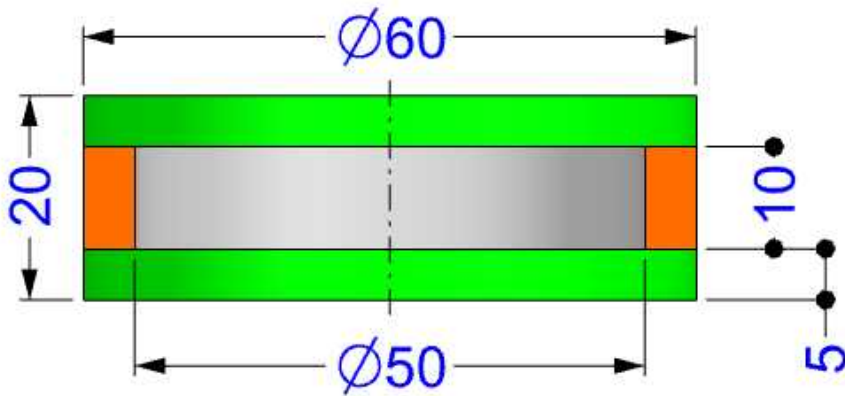
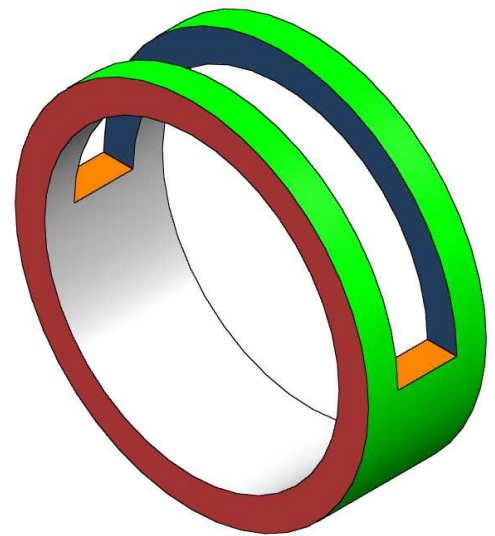


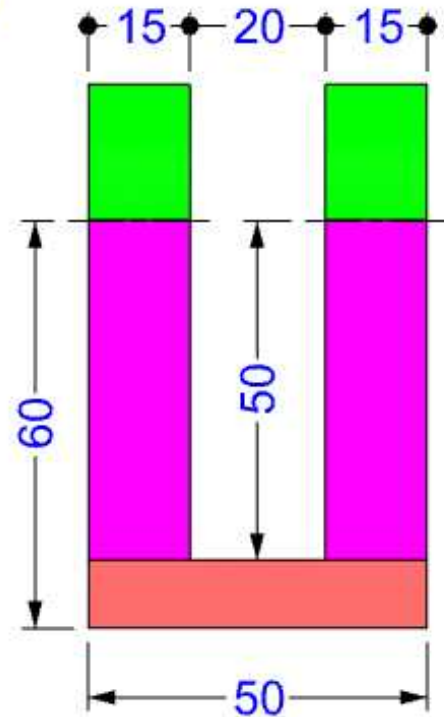
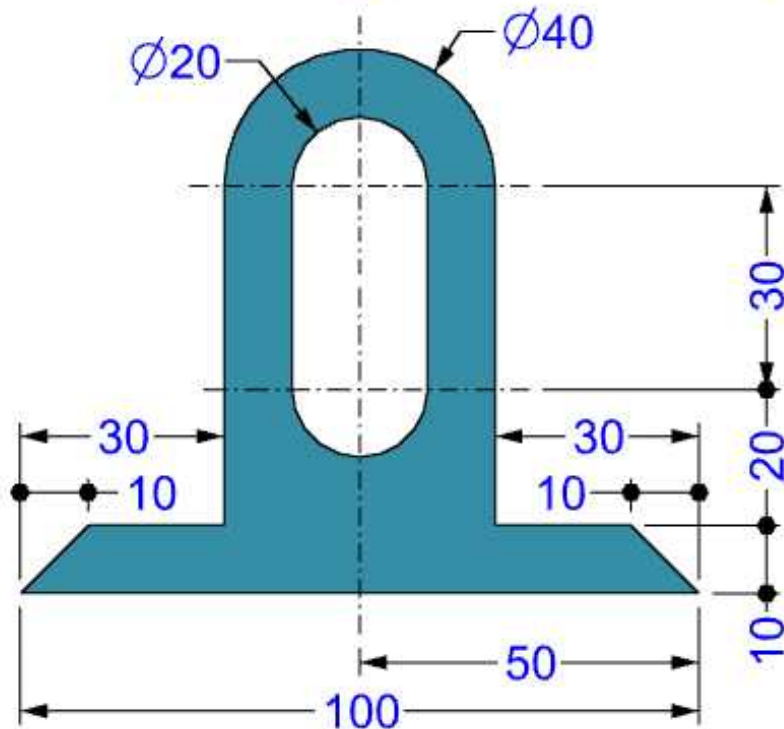
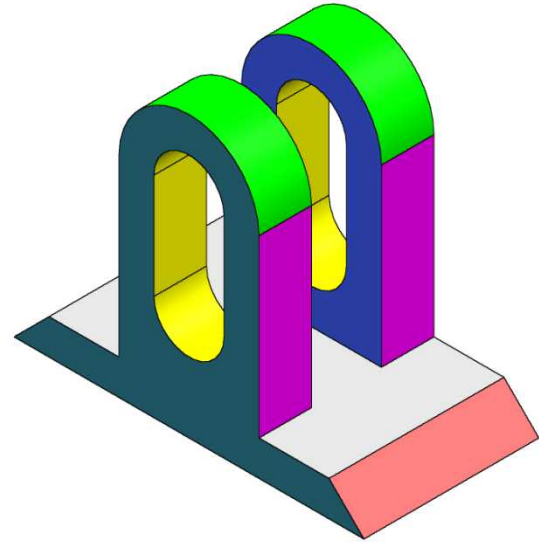
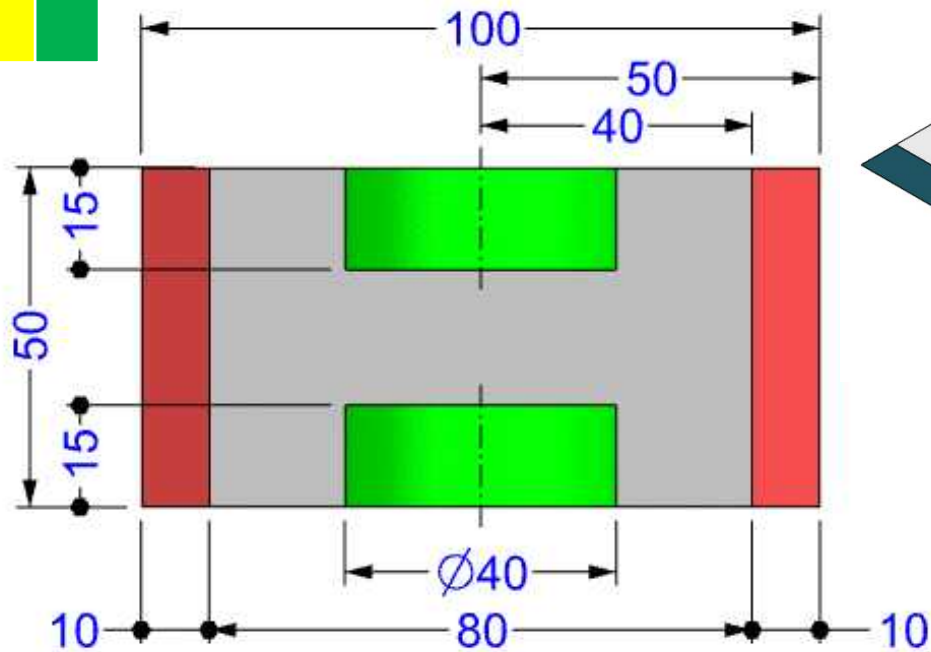
EXERCISE-38**SECTION A-A**

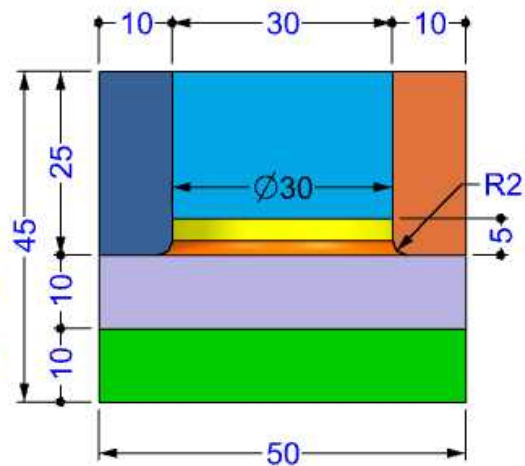
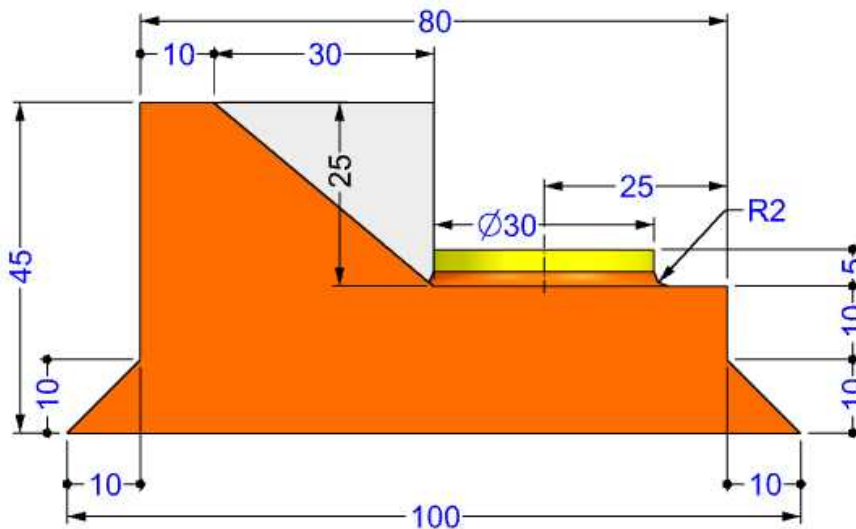
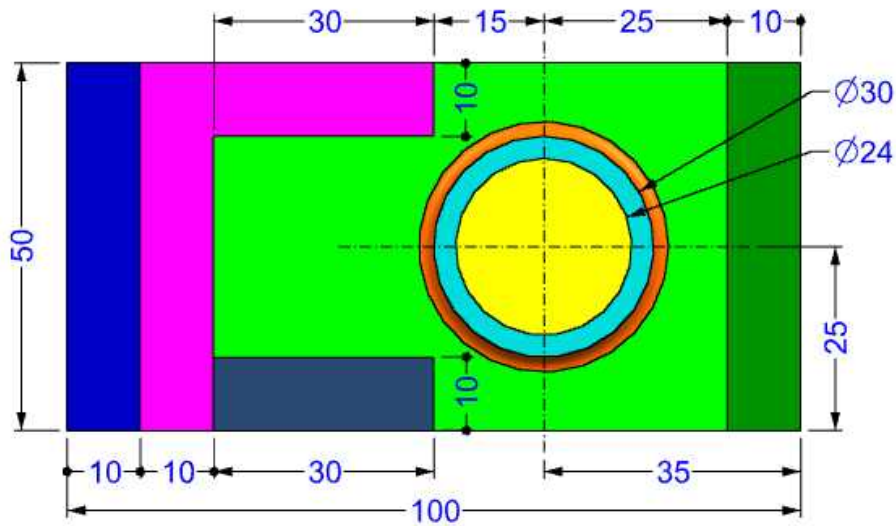
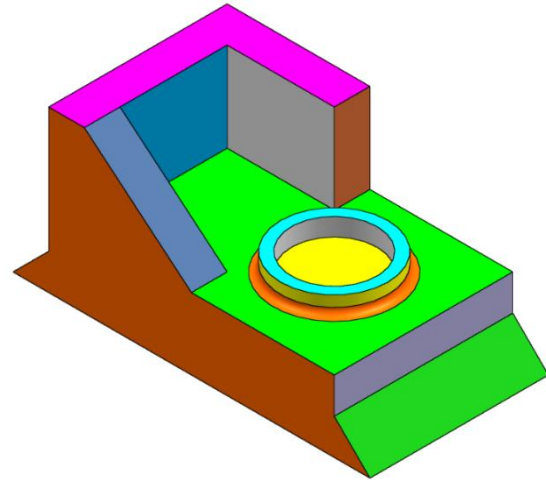
EXERCISE-39

EXERCISE-40

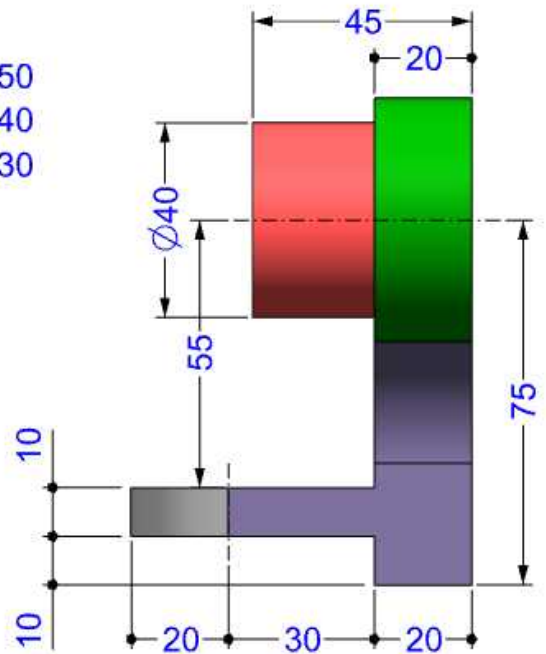
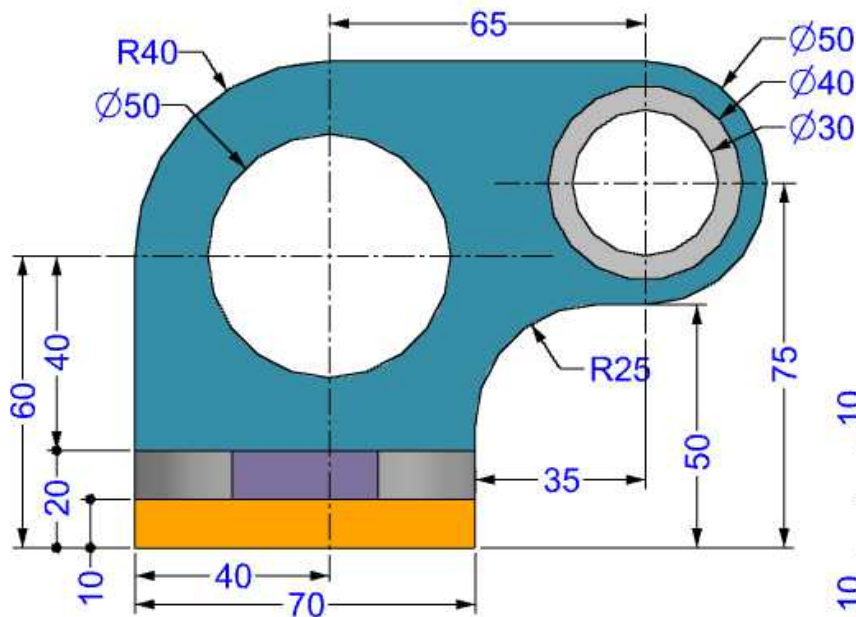
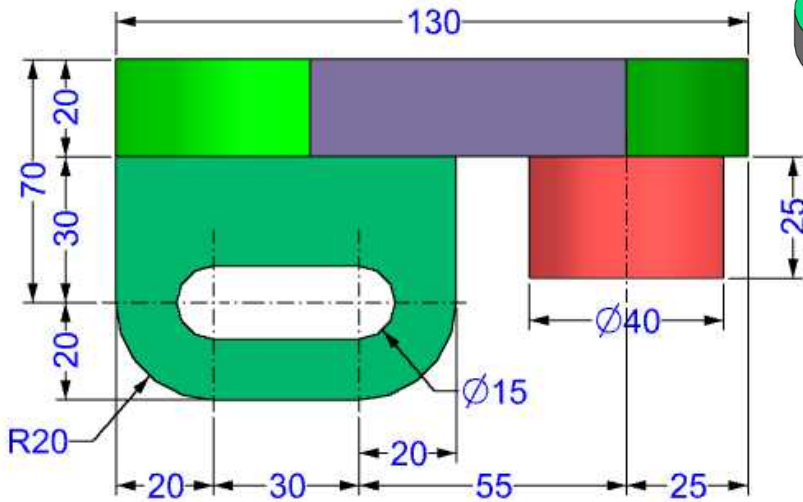
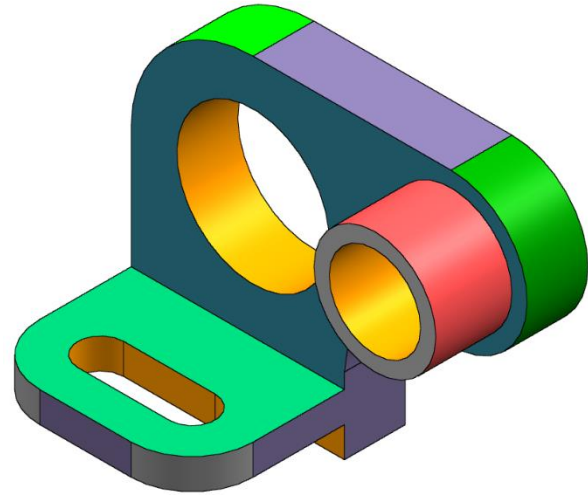


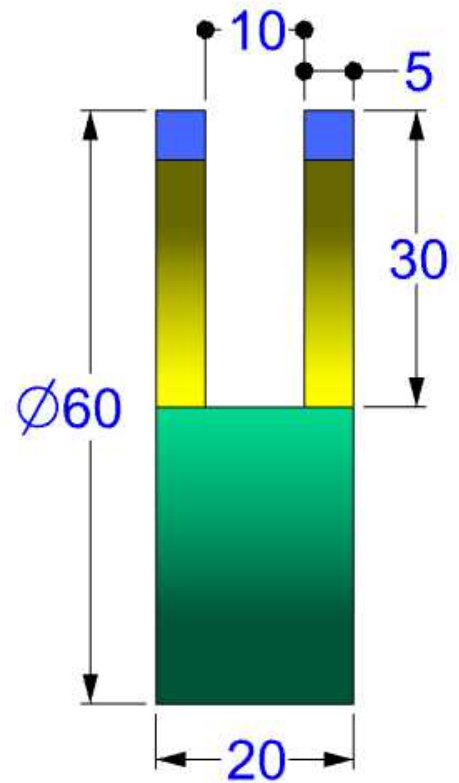
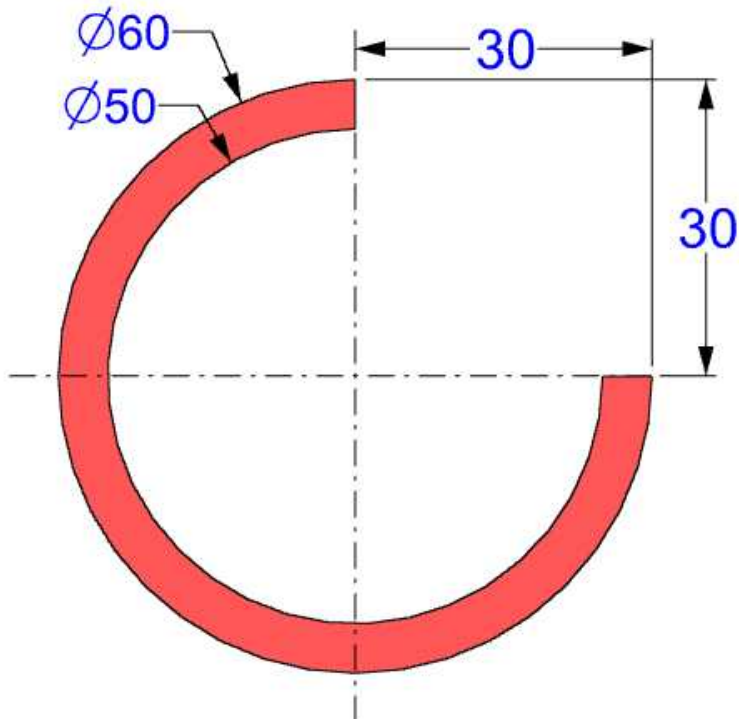
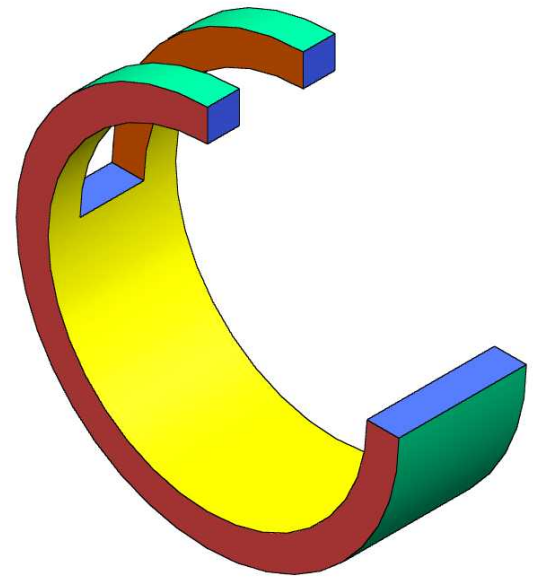
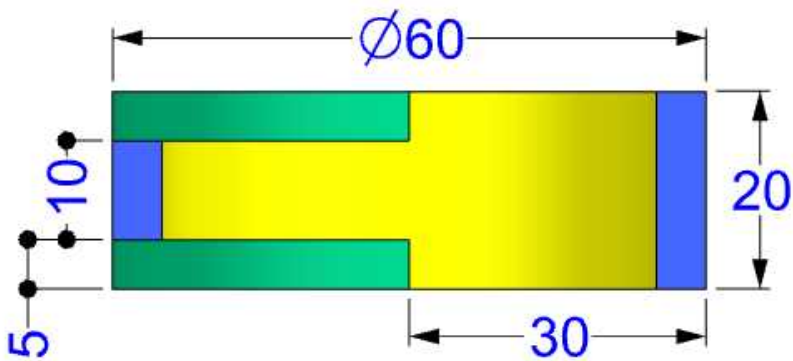
EXERCISE-41

EXERCISE-42

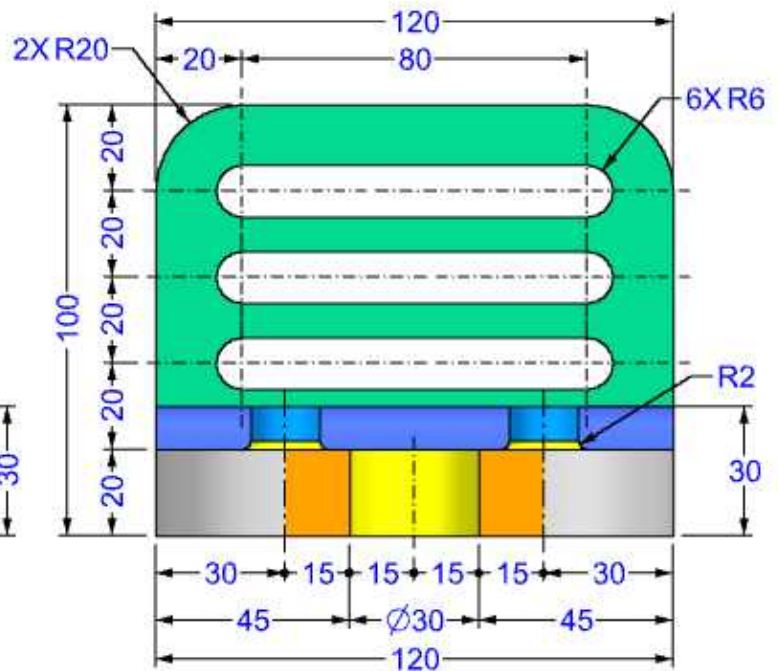
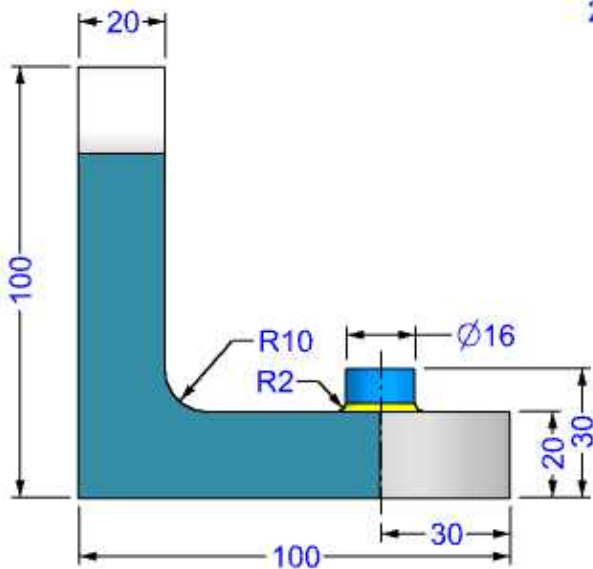
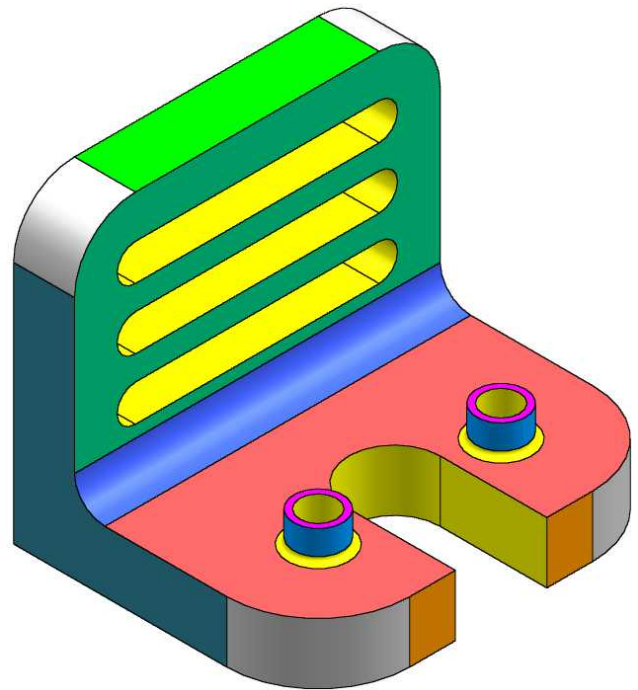
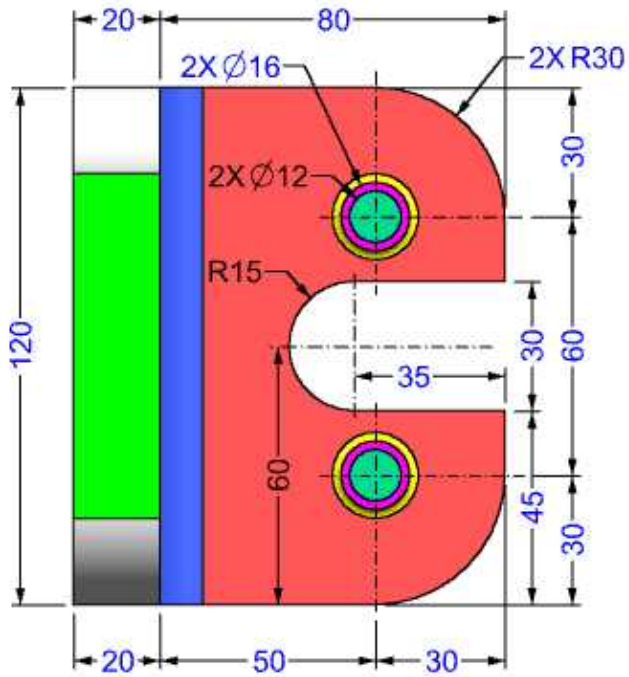
EXERCISE-43

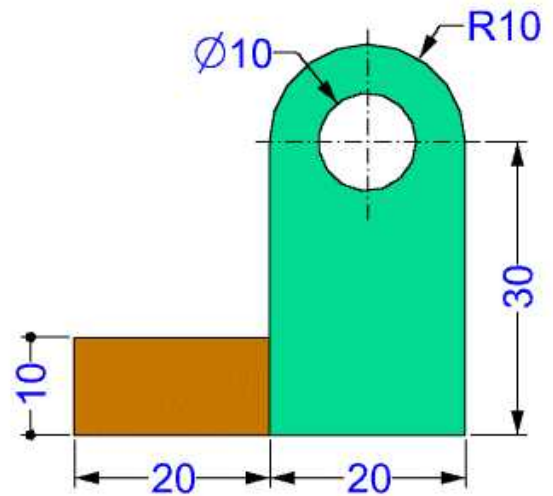
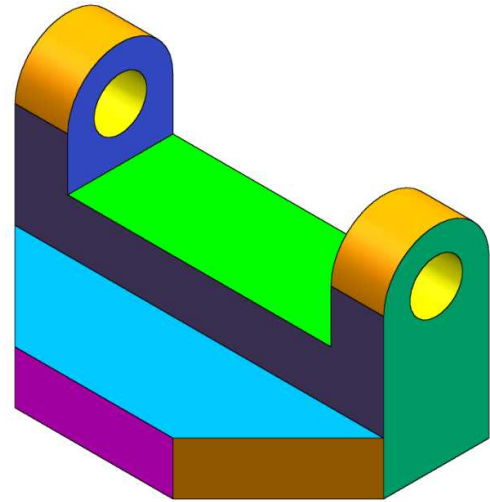
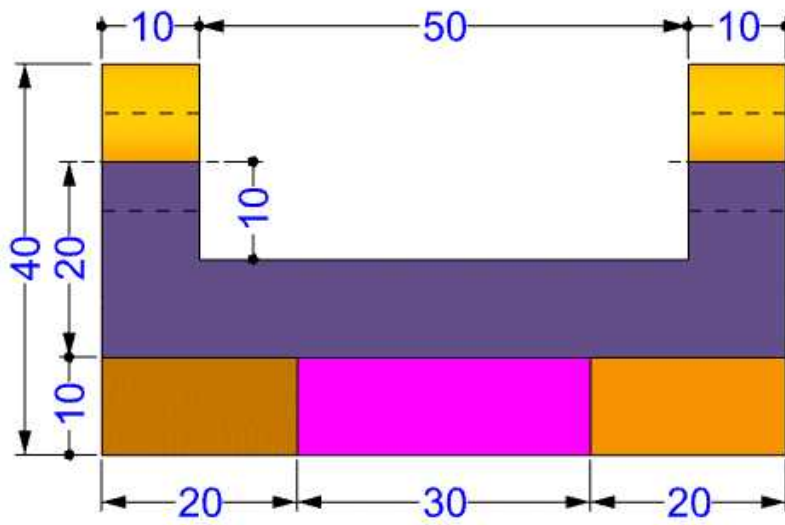
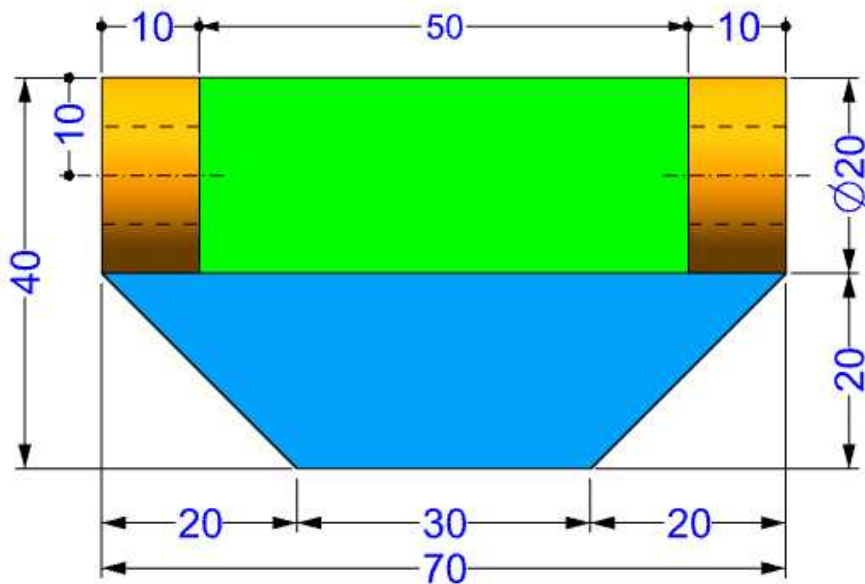
EXERCISE-44

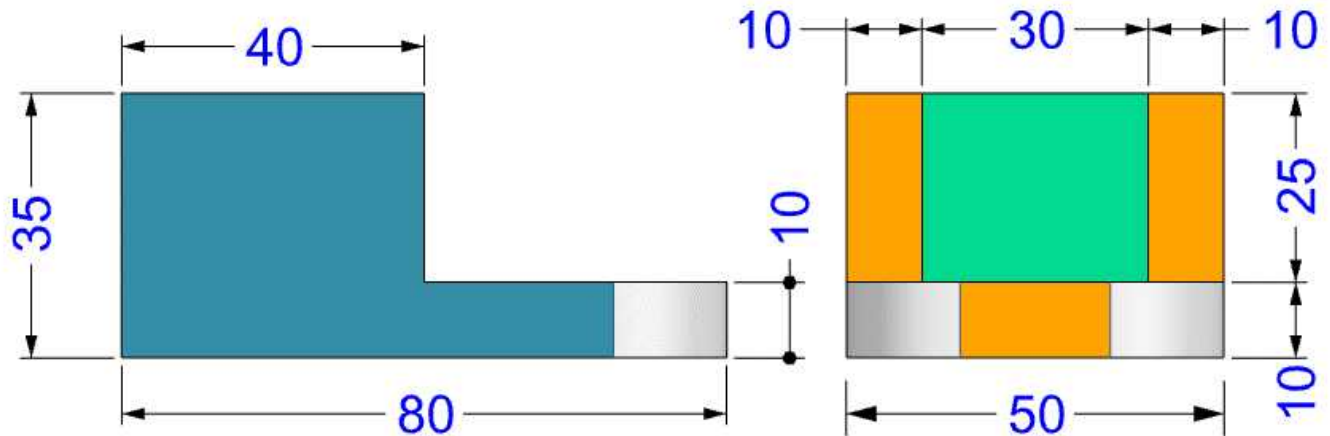
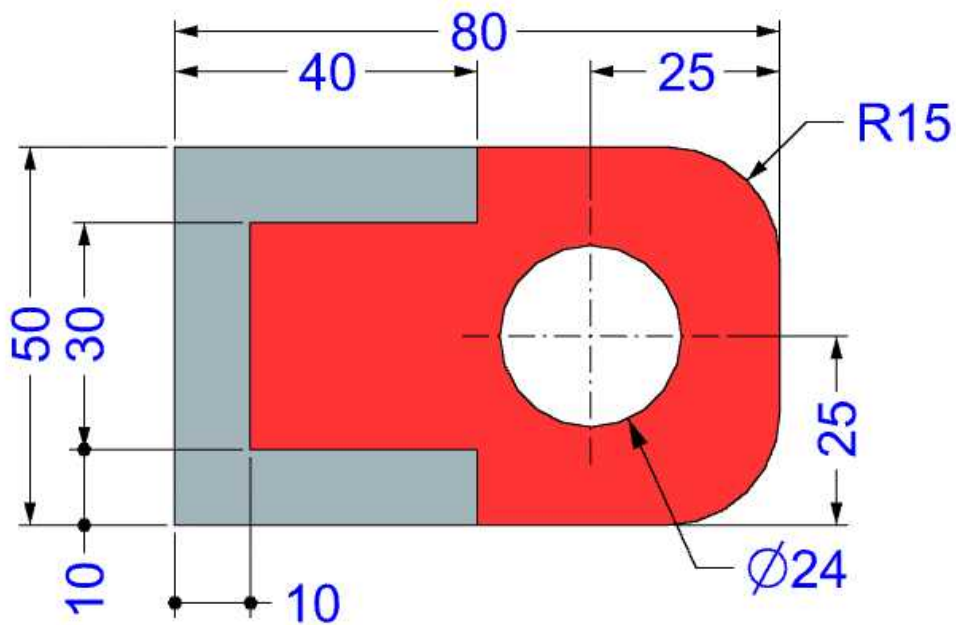
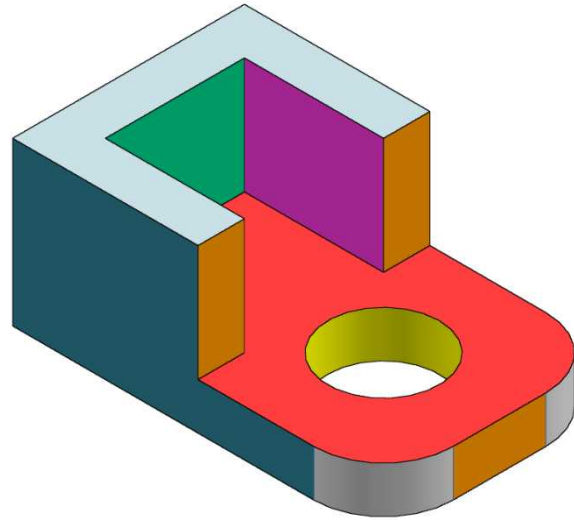


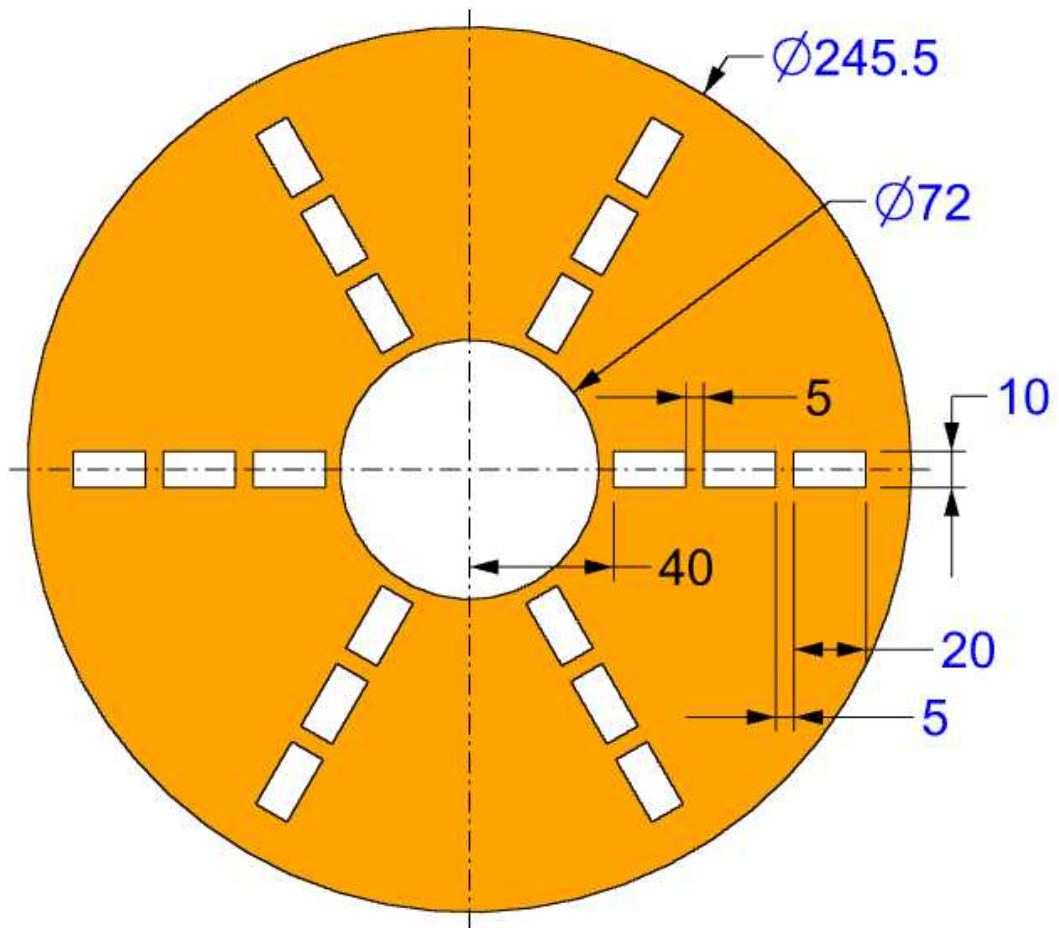
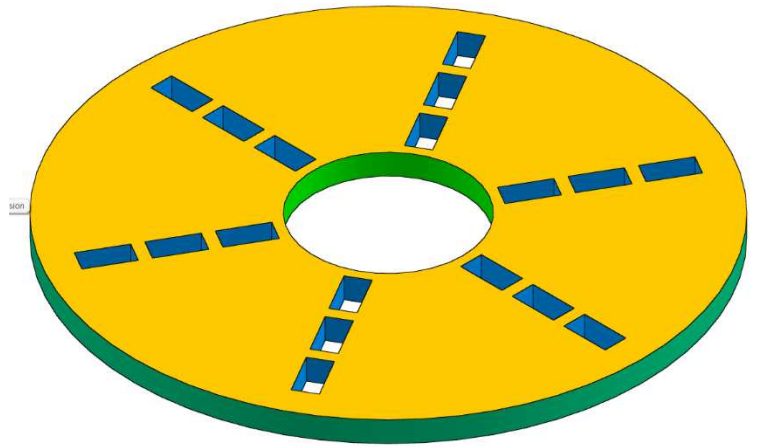
EXERCISE-45

EXERCISE-46

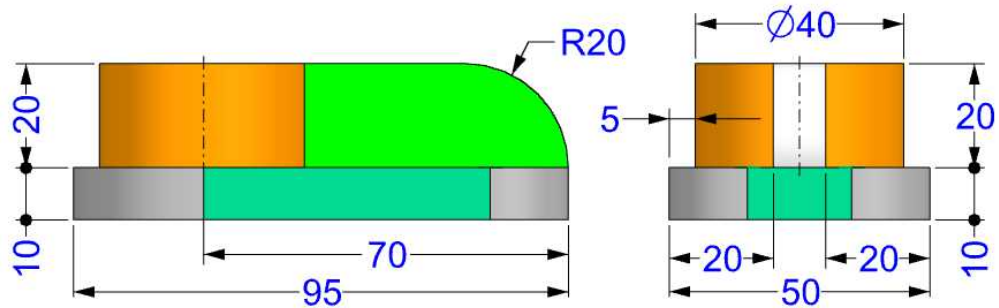
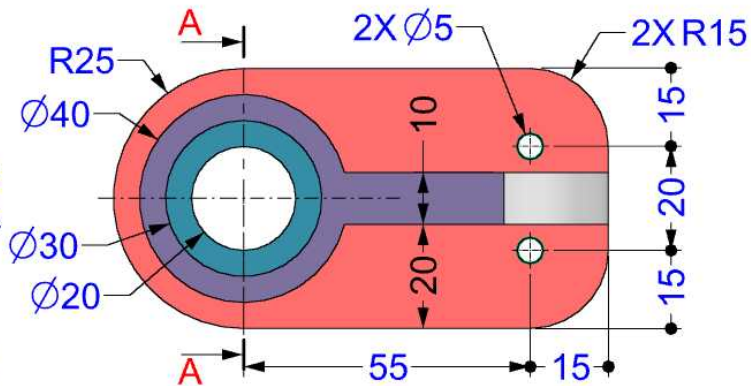
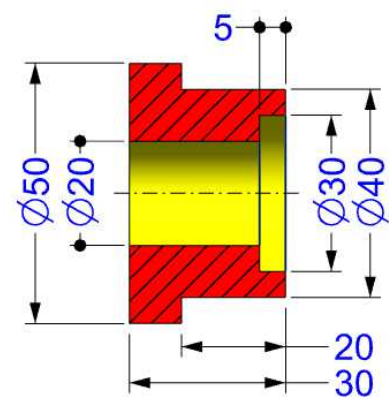
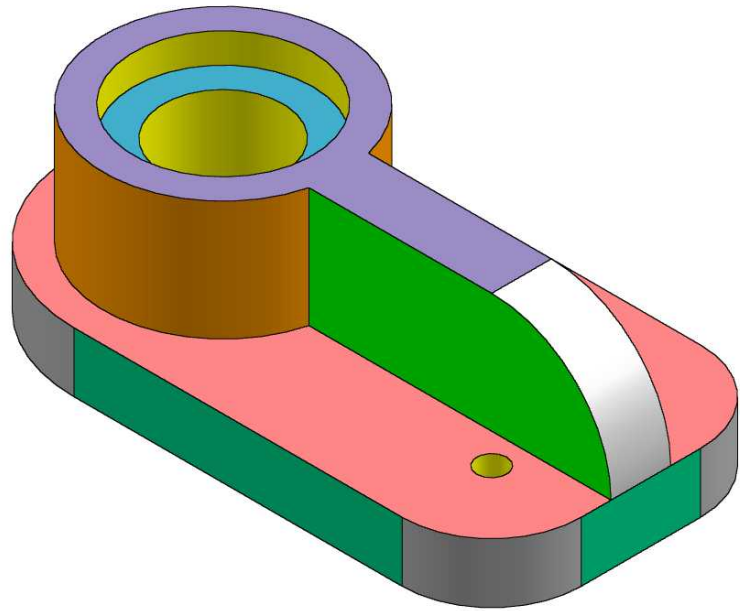


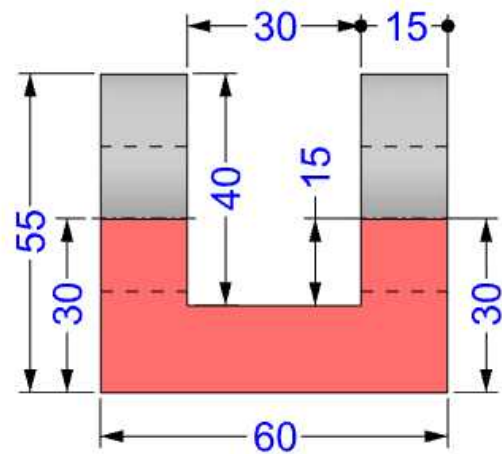
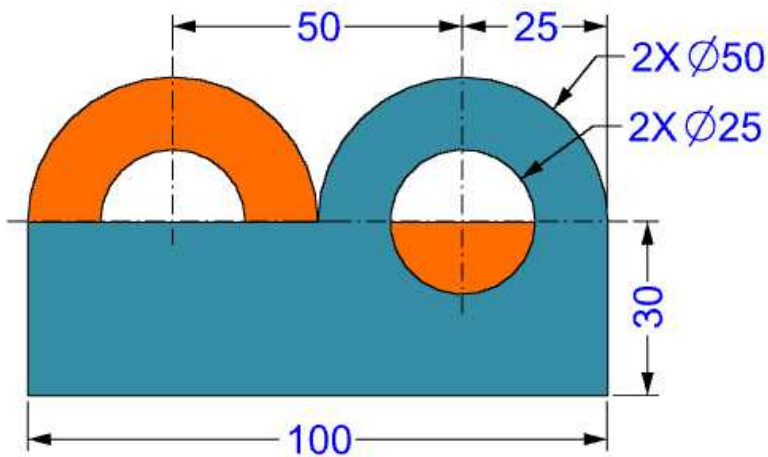
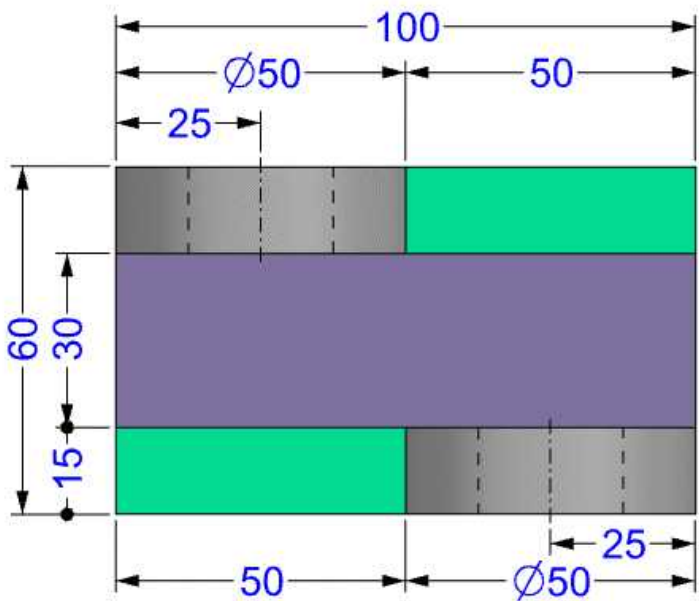
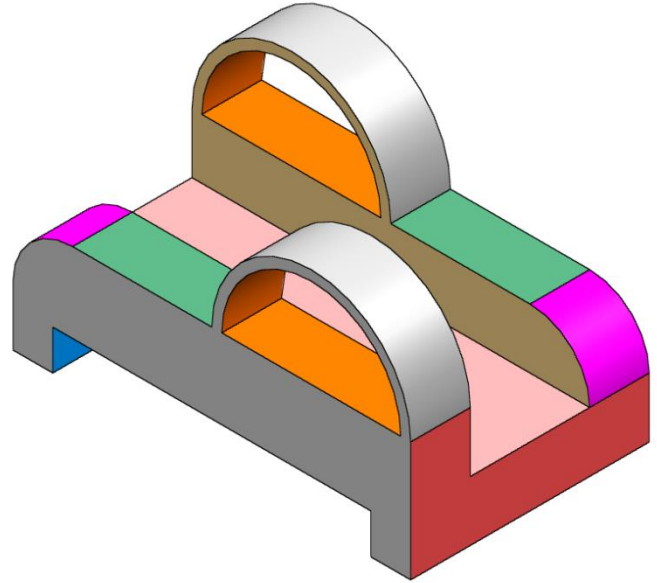
EXERCISE-47

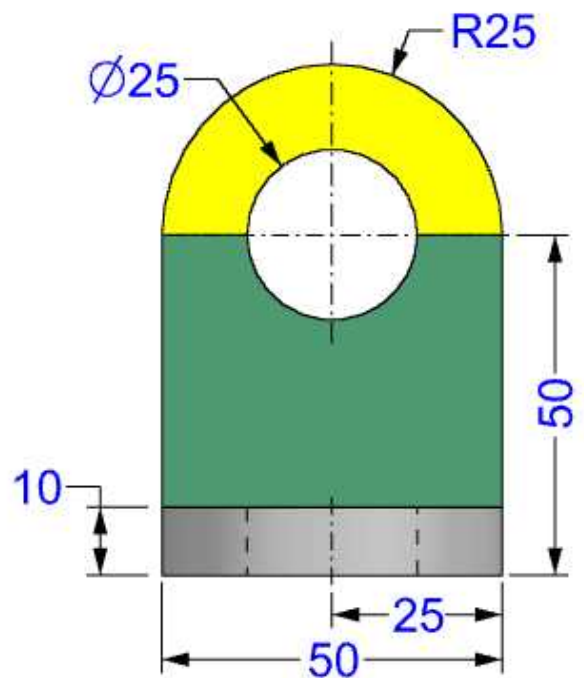
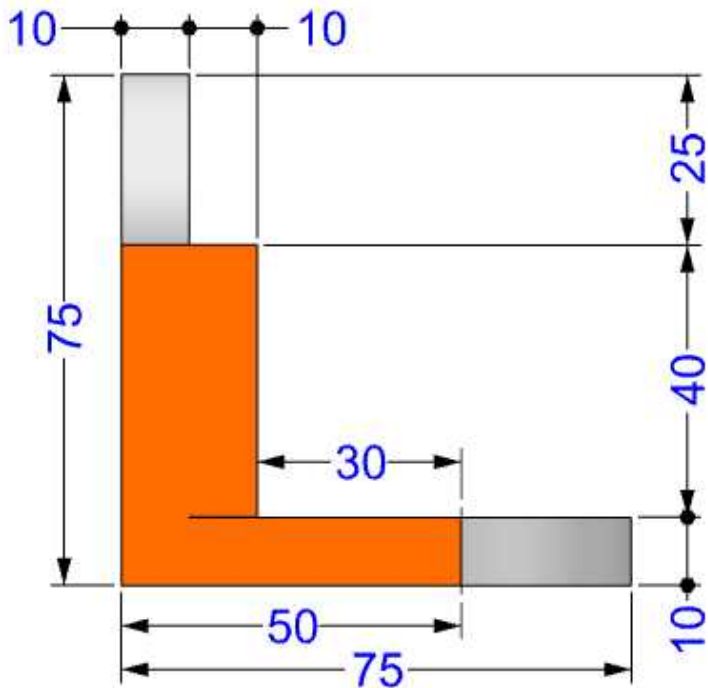
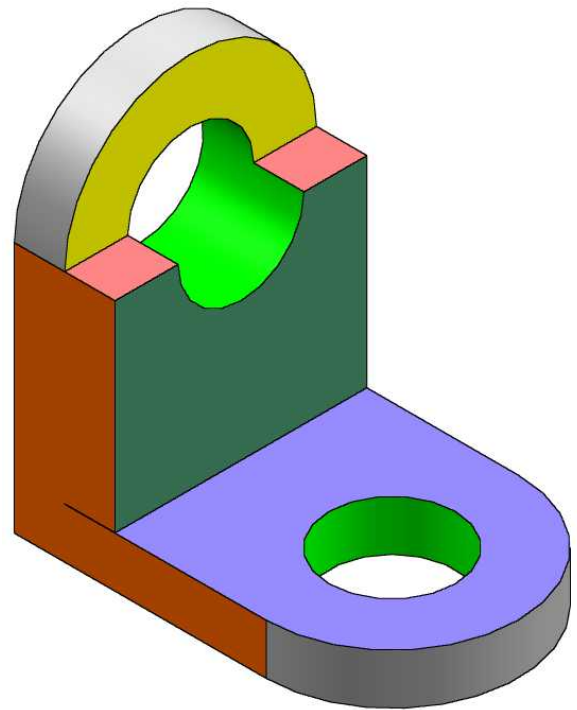
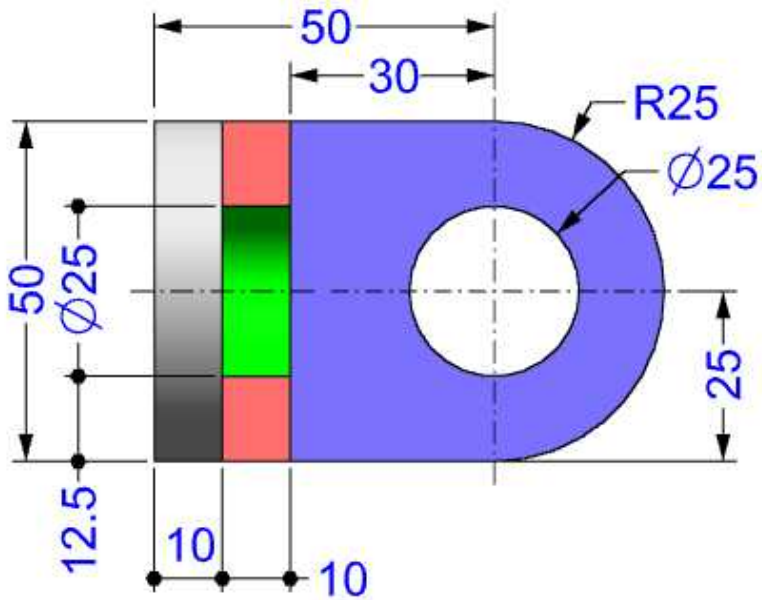
EXERCISE-48

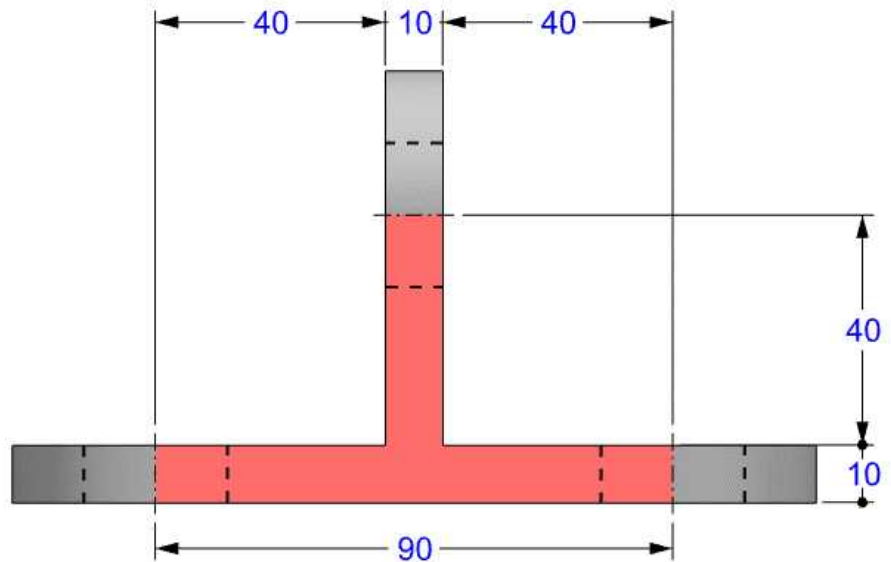
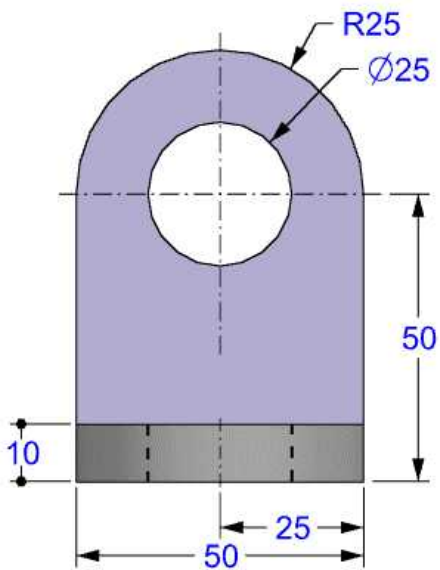
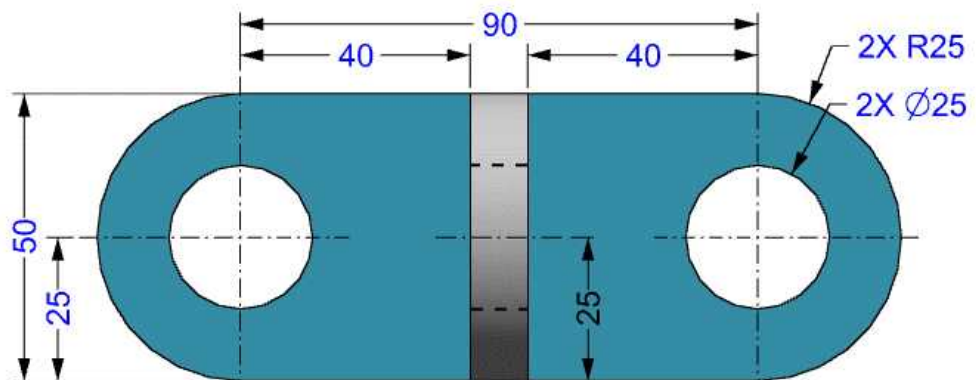
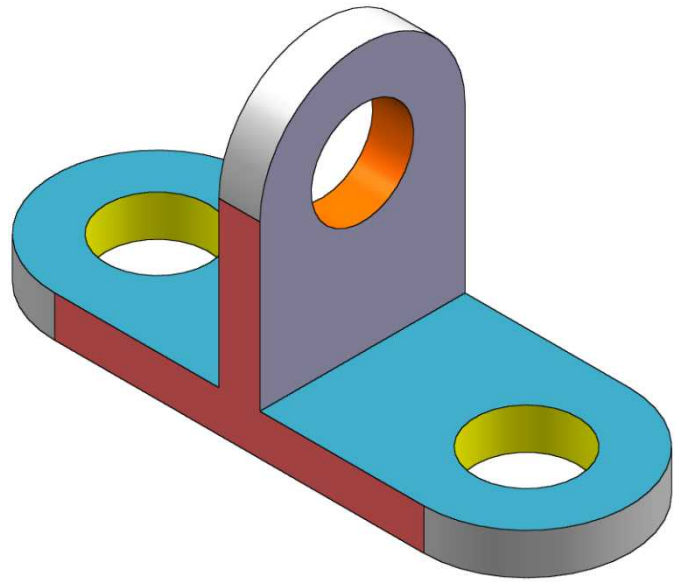
EXERCISE-49

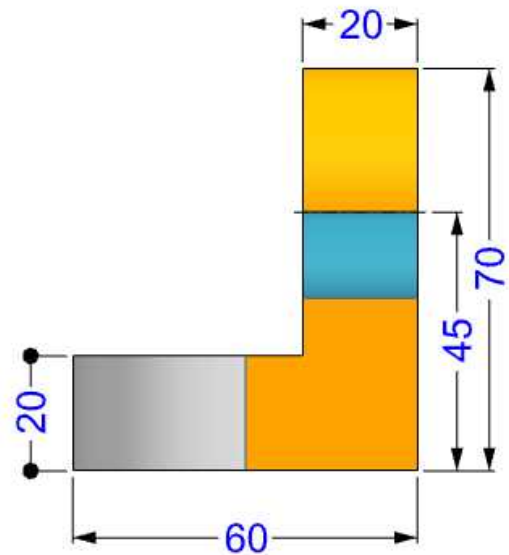
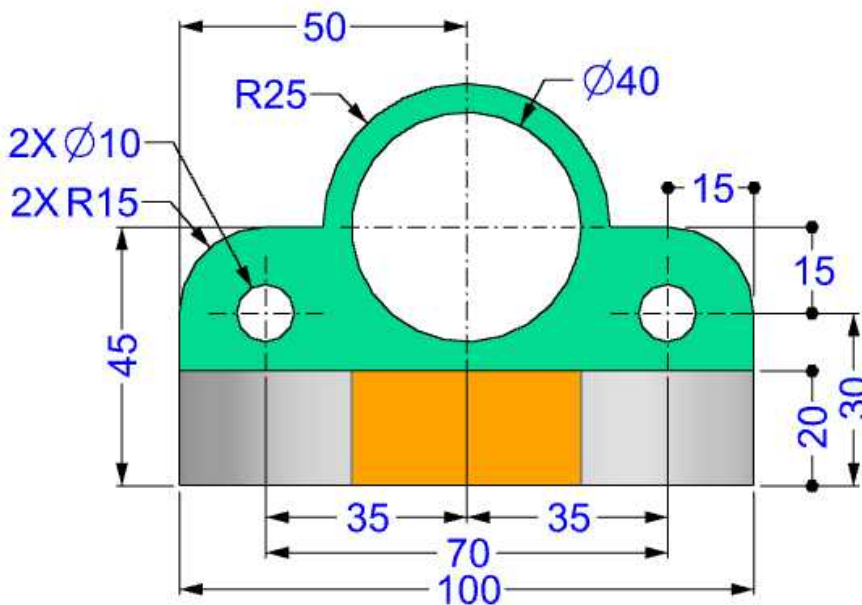
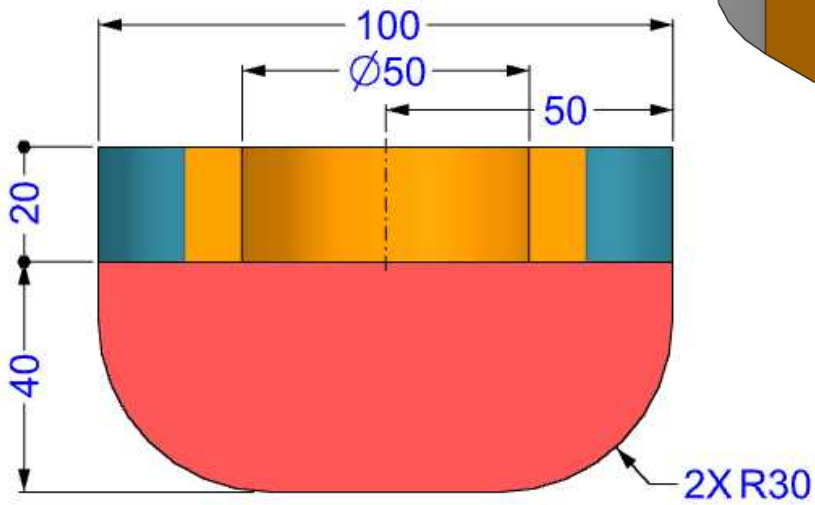
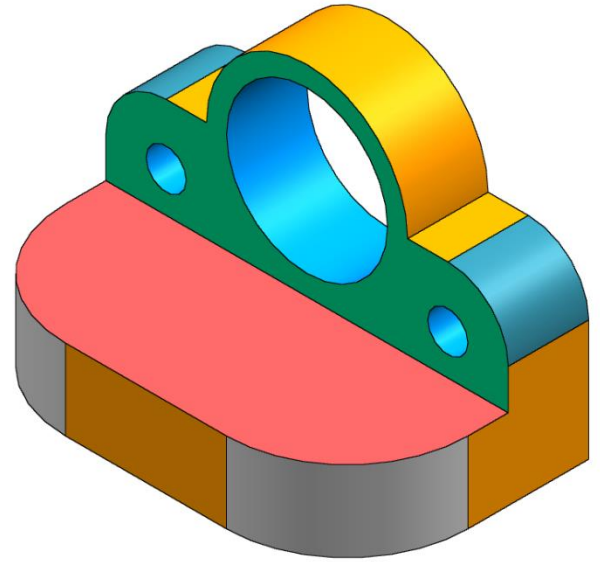
EXERCISE-50

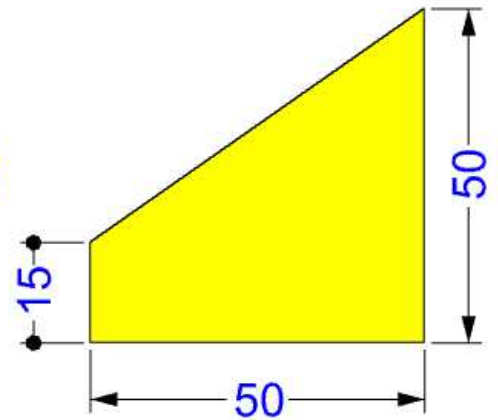
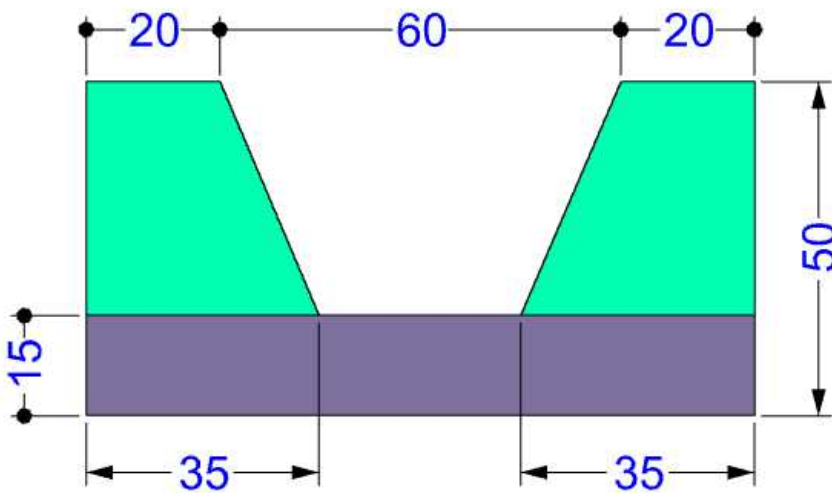
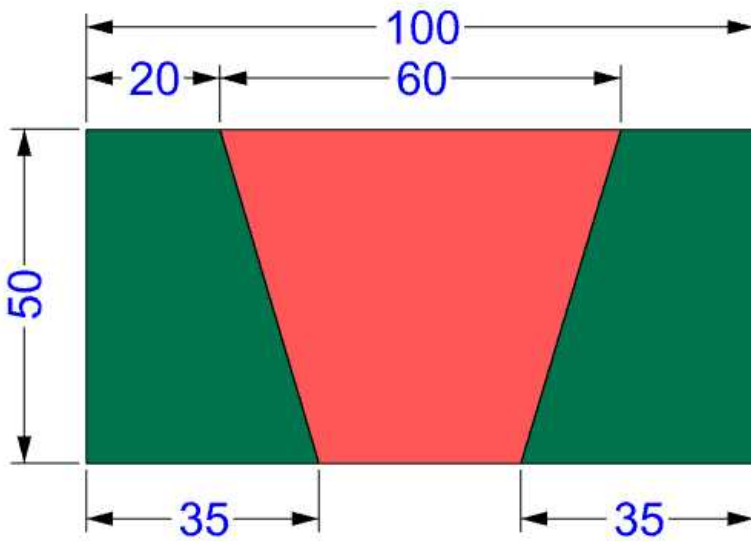
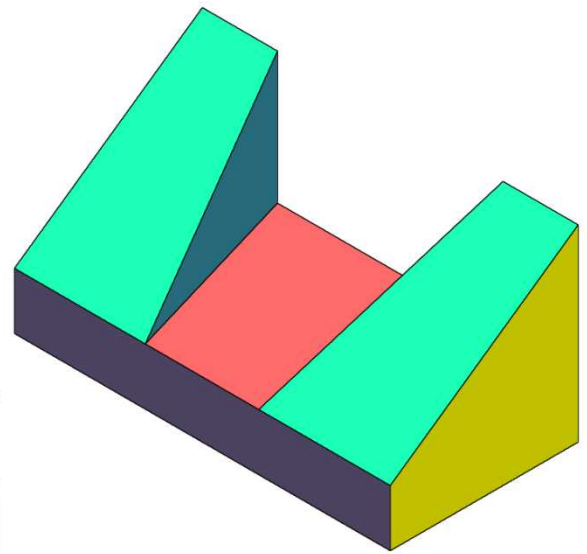


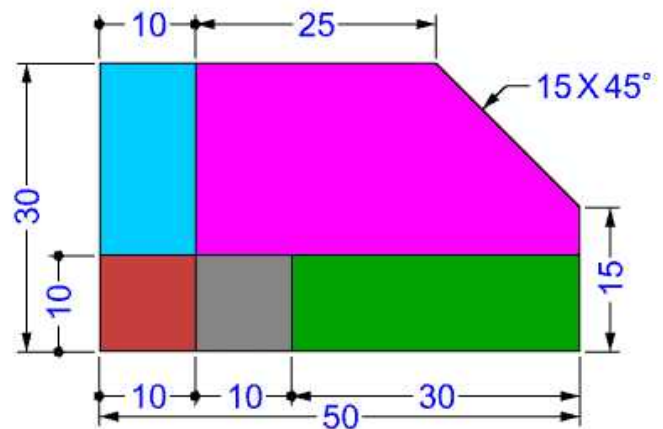
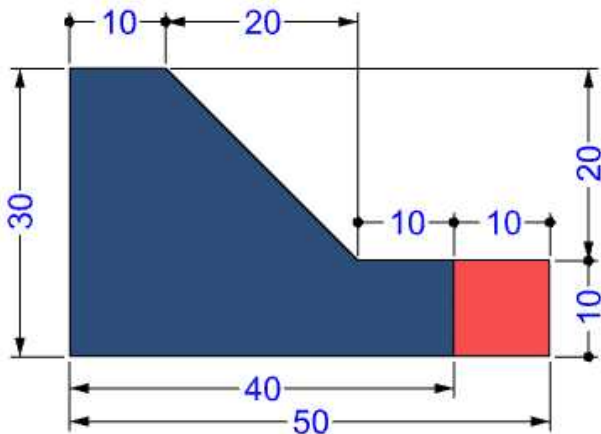
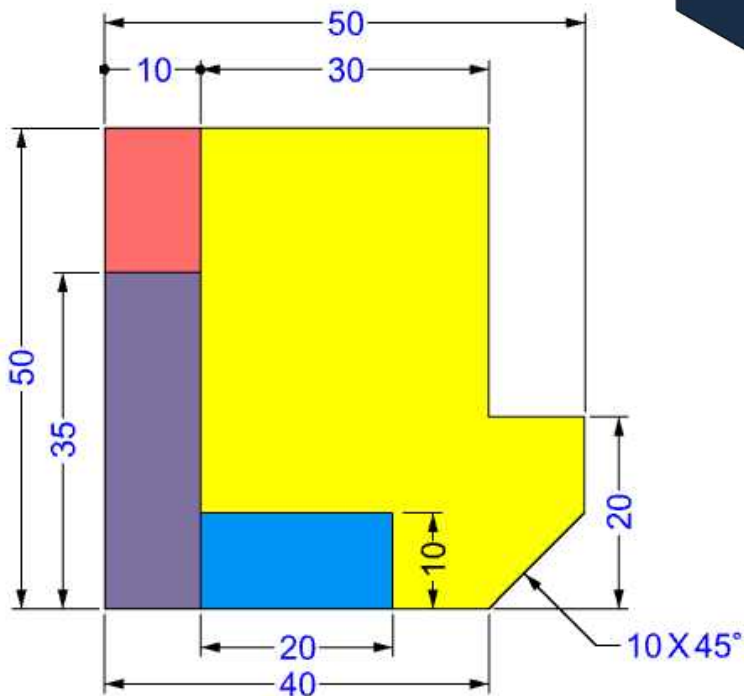
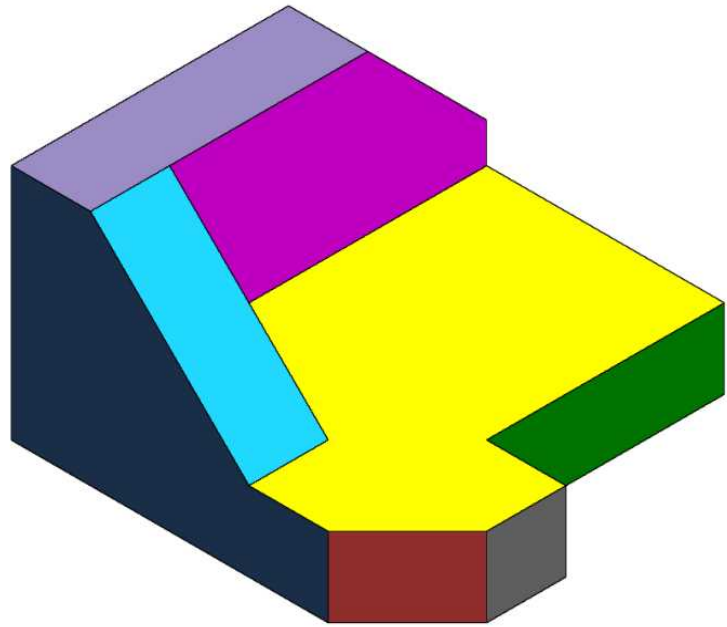
EXERCISE-51

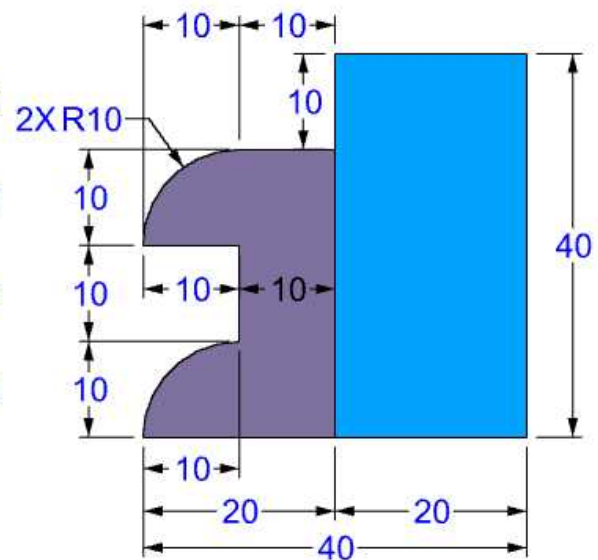
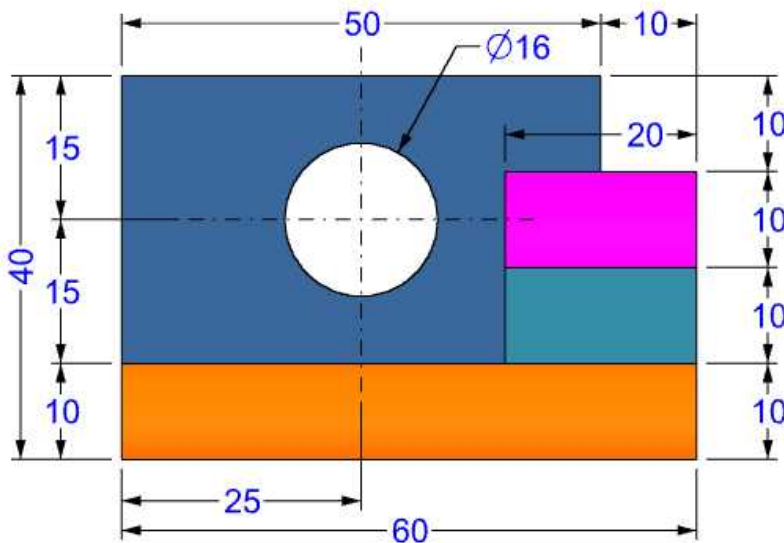
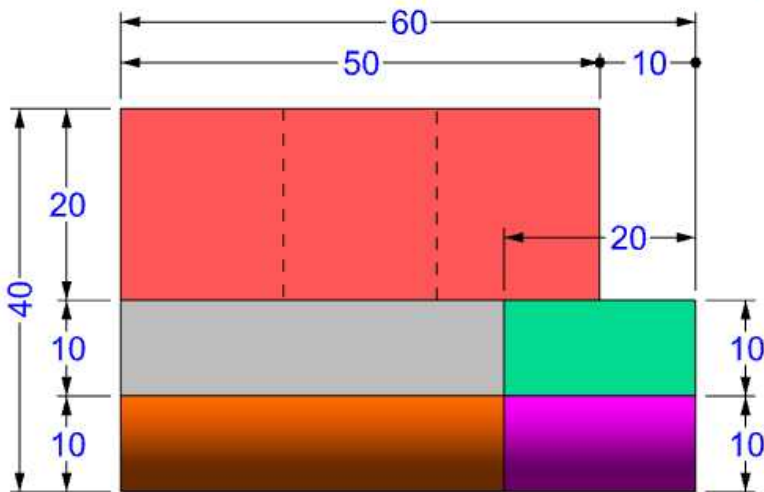
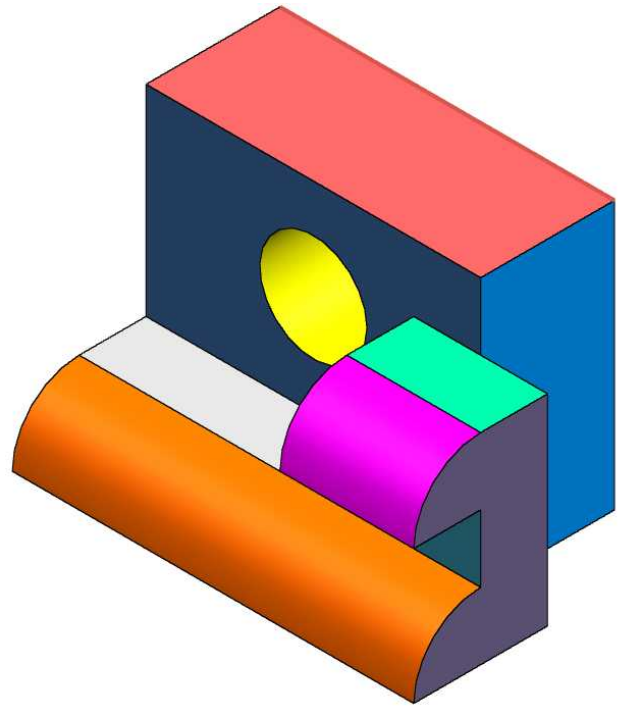
EXERCISE-52

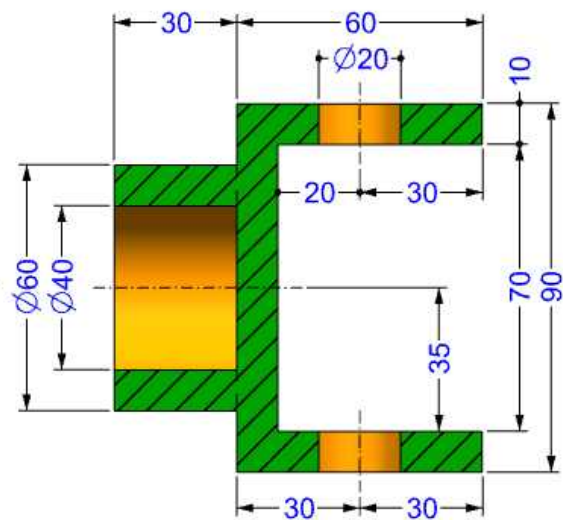
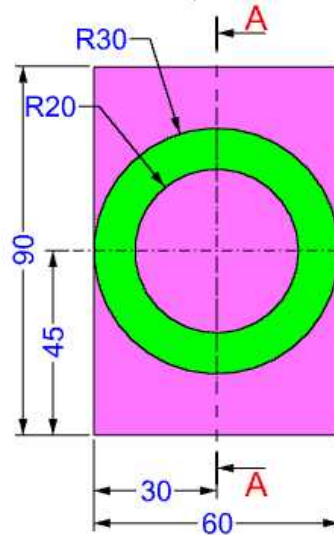
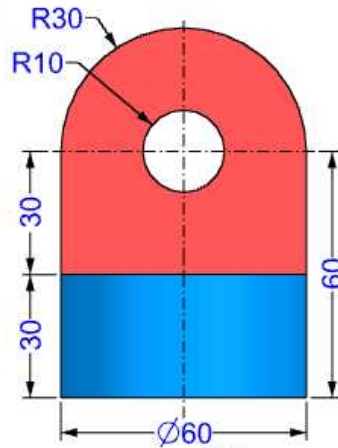
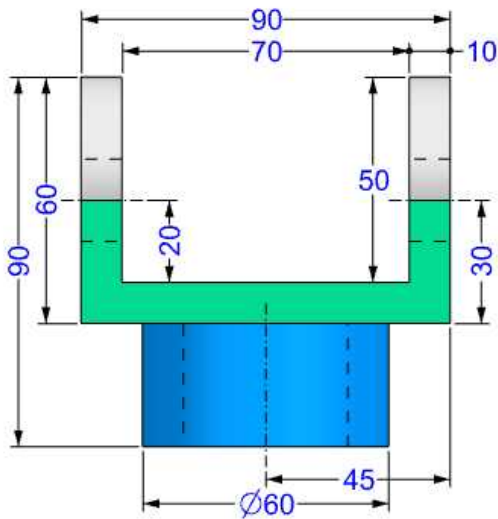
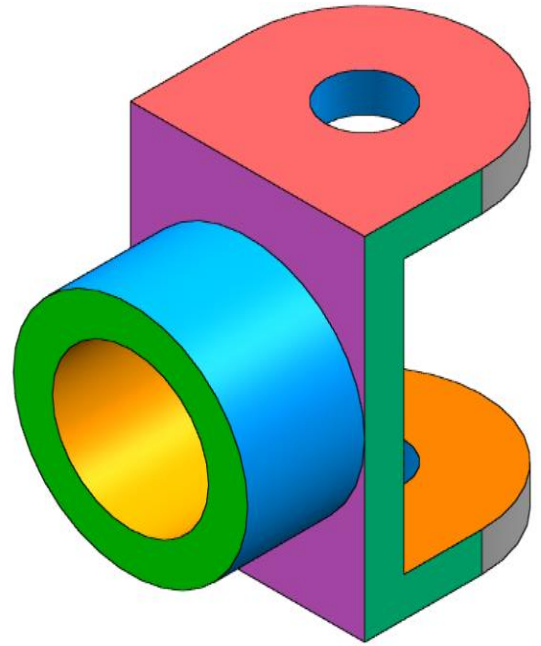
EXERCISE-53

EXERCISE-54

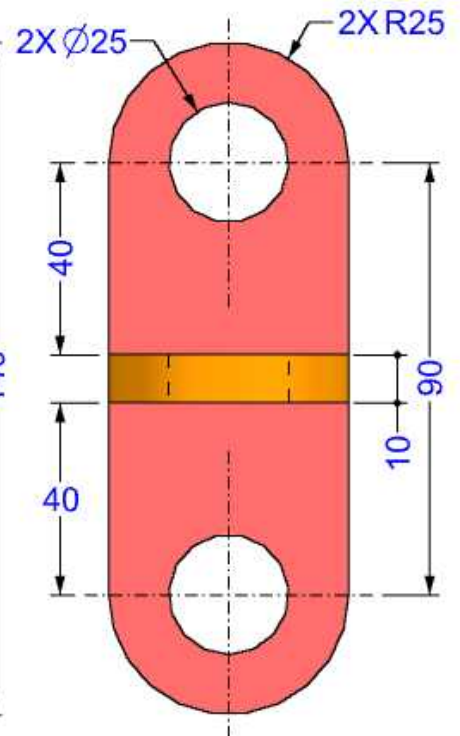
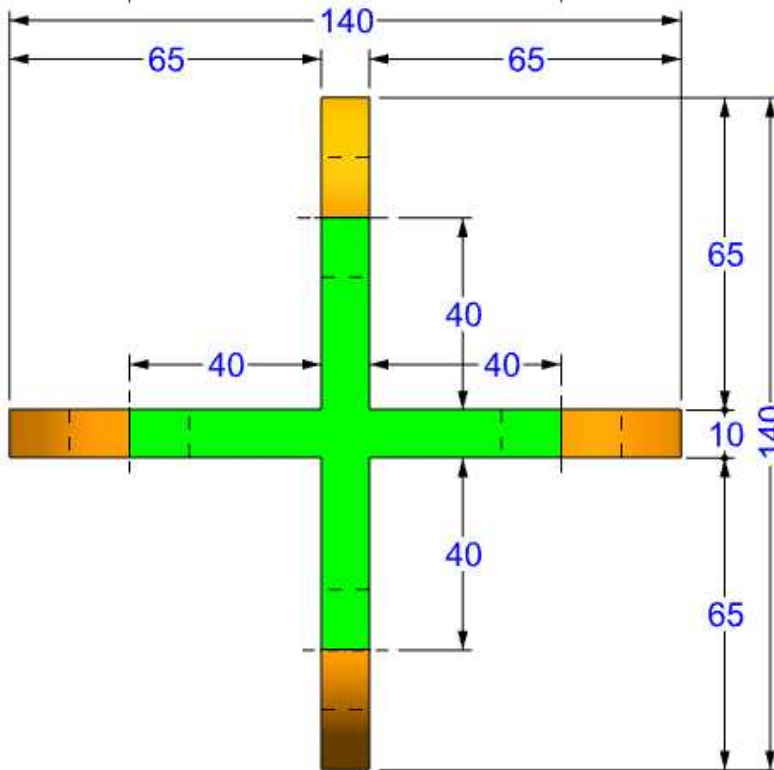
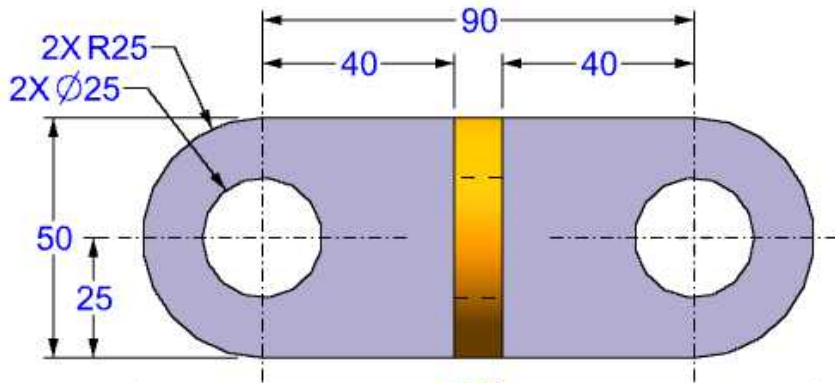
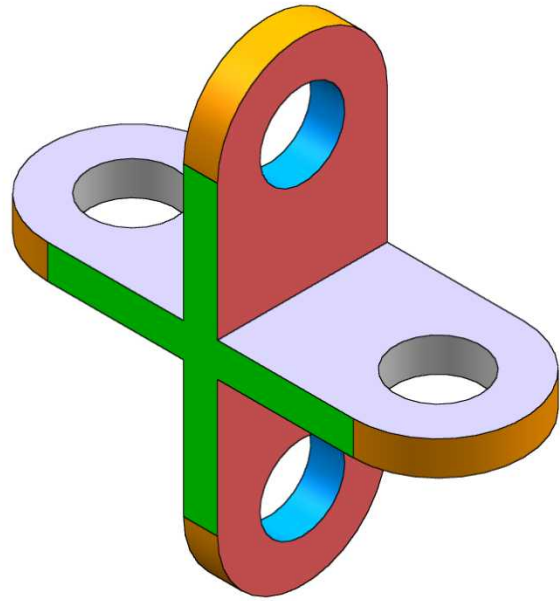
EXERCISE-55

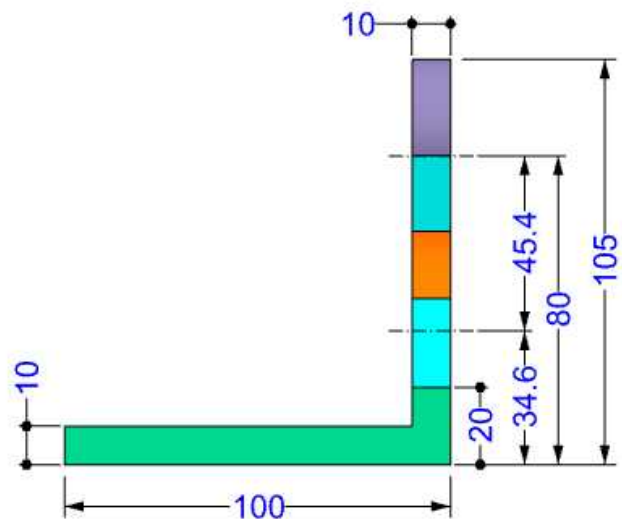
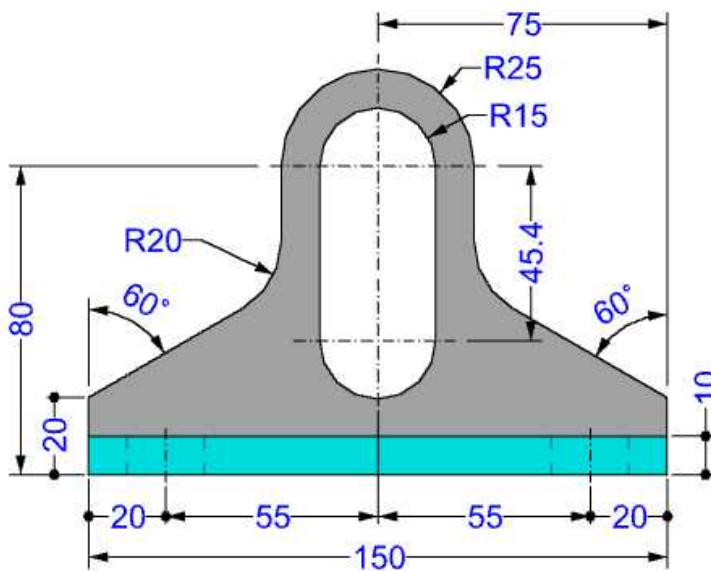
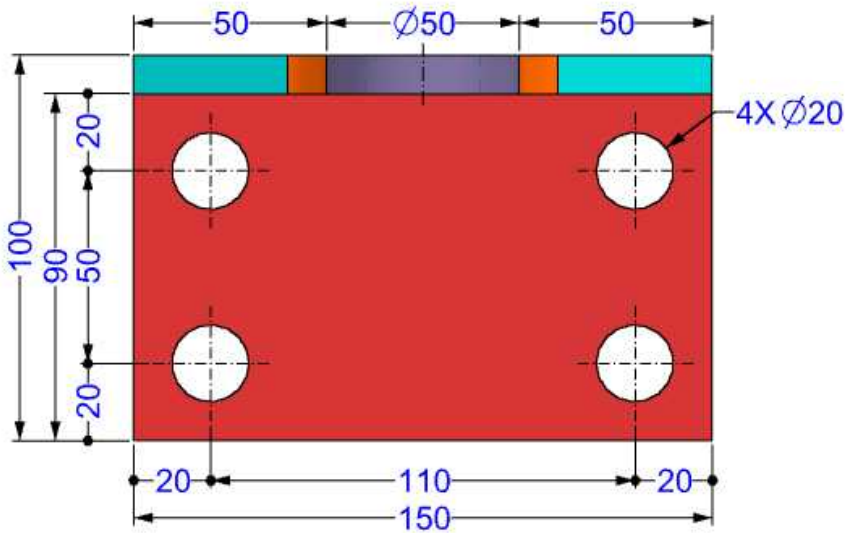
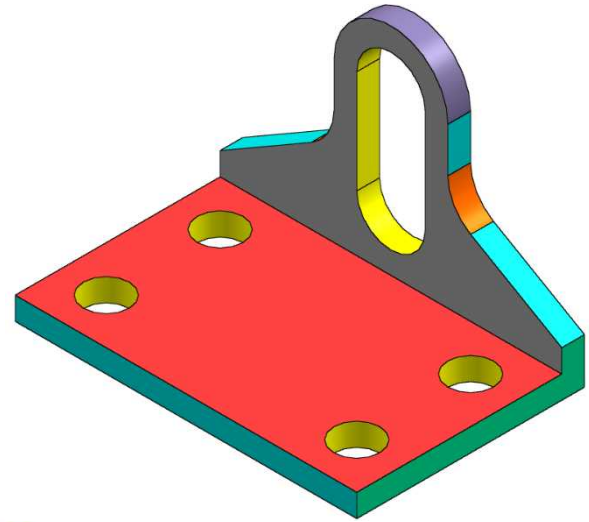
EXERCISE-56

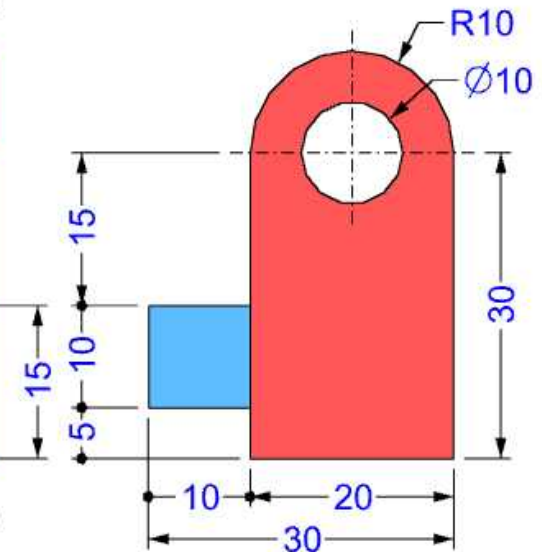
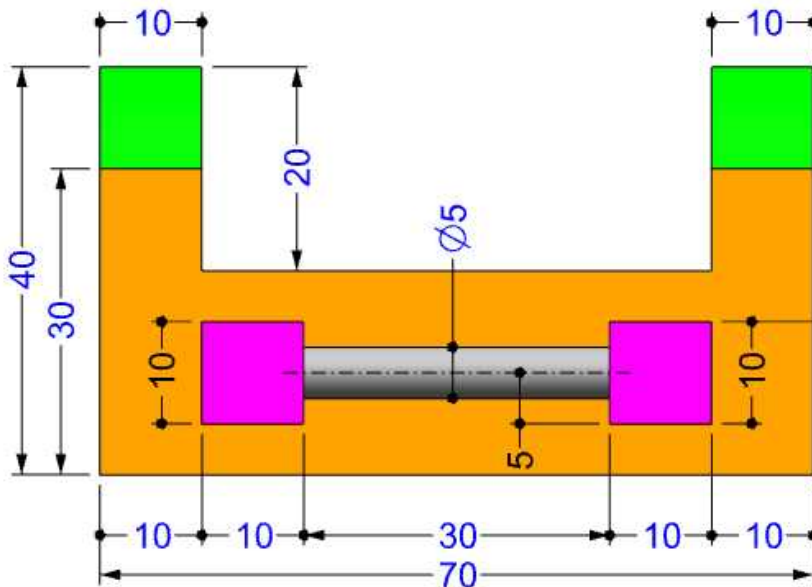
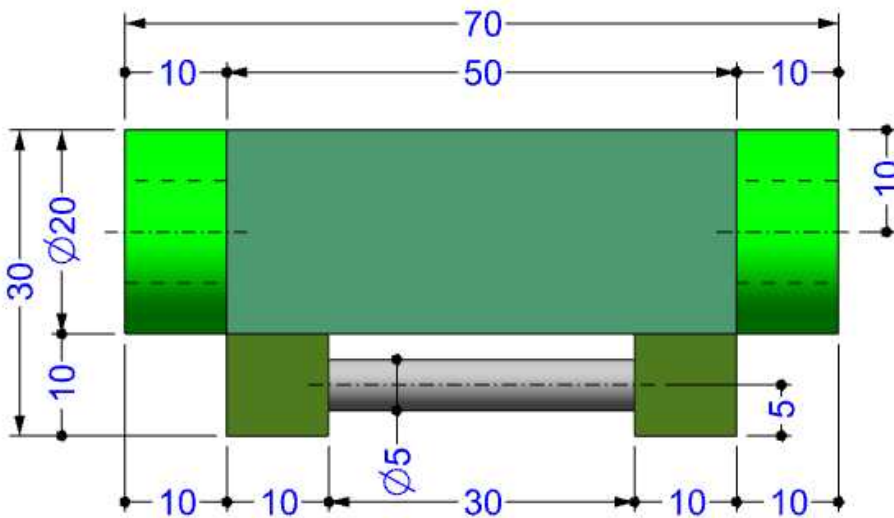
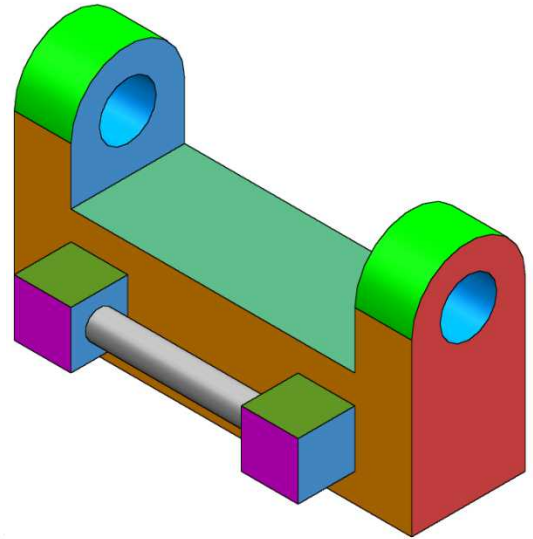
EXERCISE-57

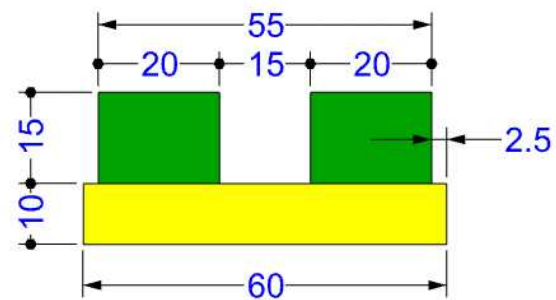
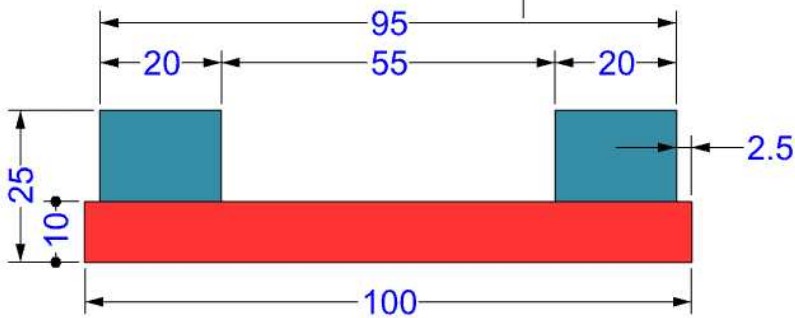
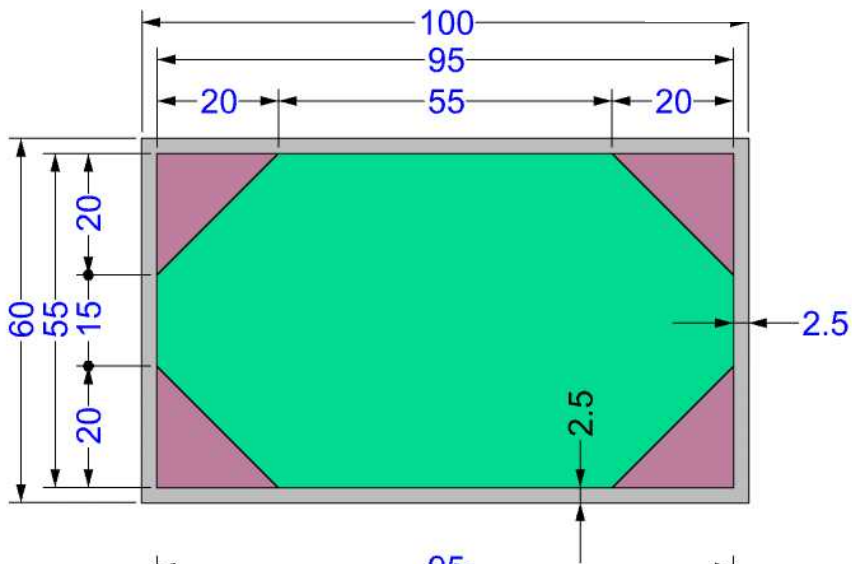
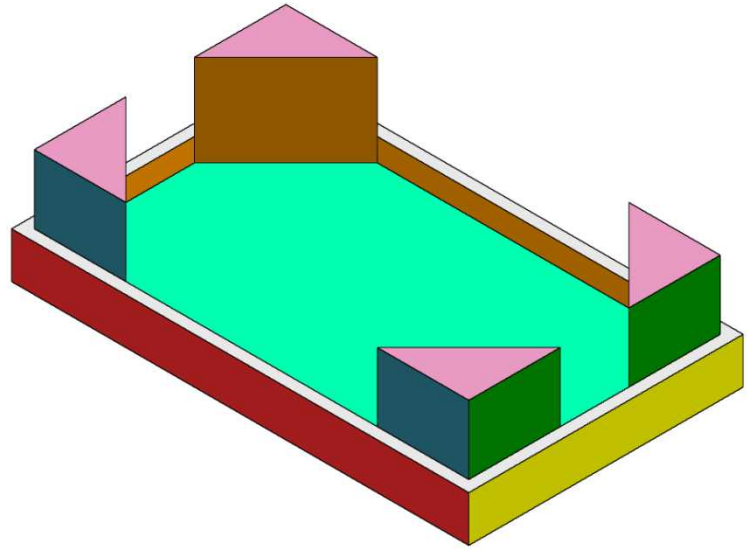
EXERCISE-58

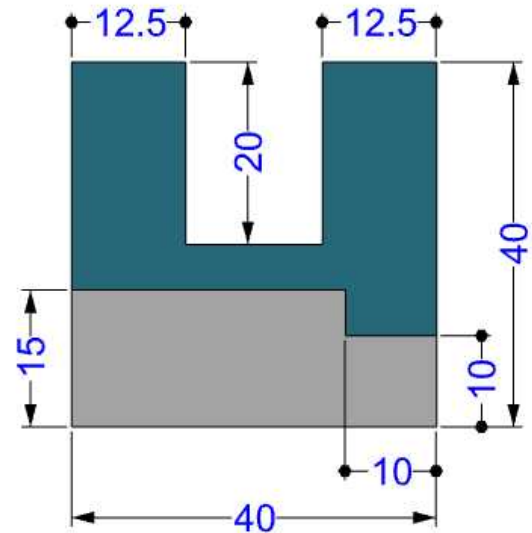
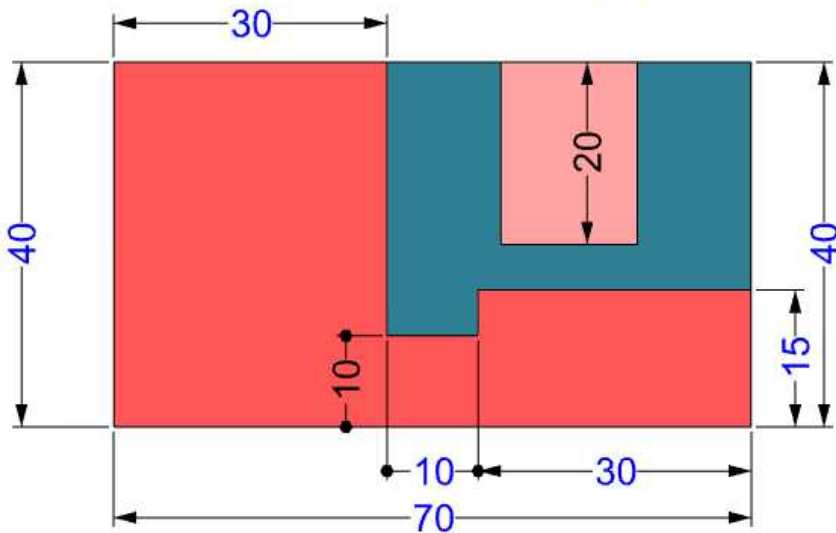
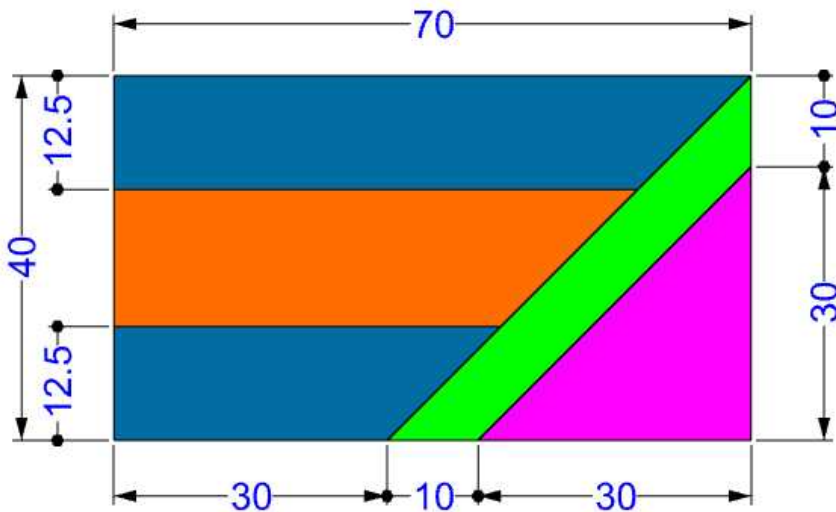
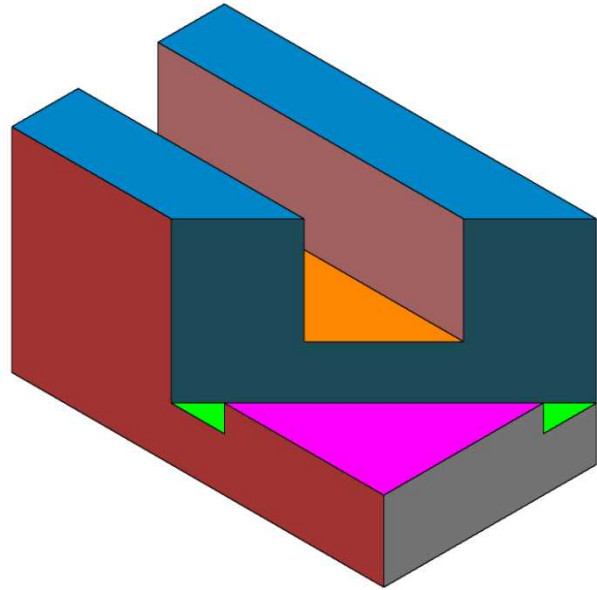
SECTION A-A

EXERCISE-59

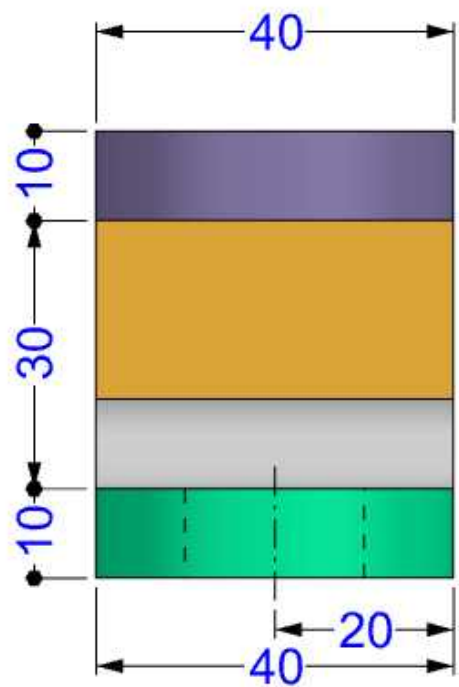
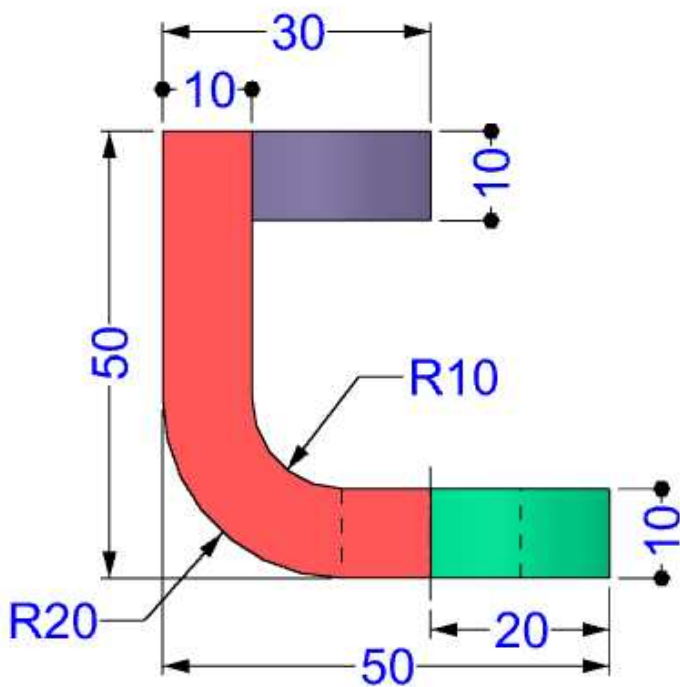
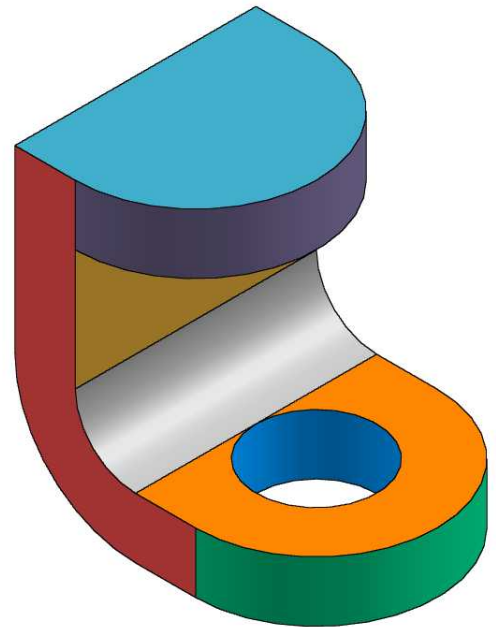
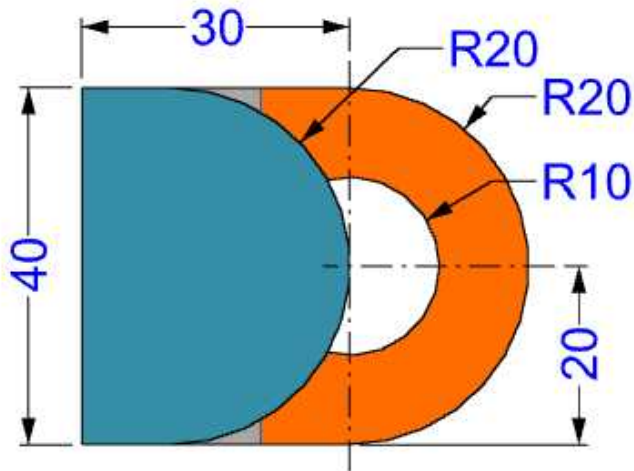
EXERCISE-60

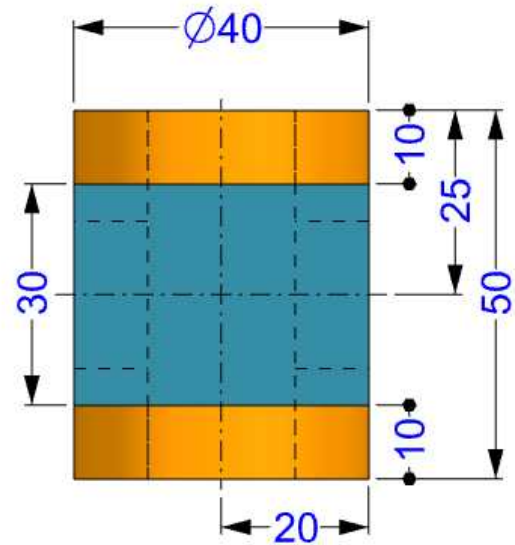
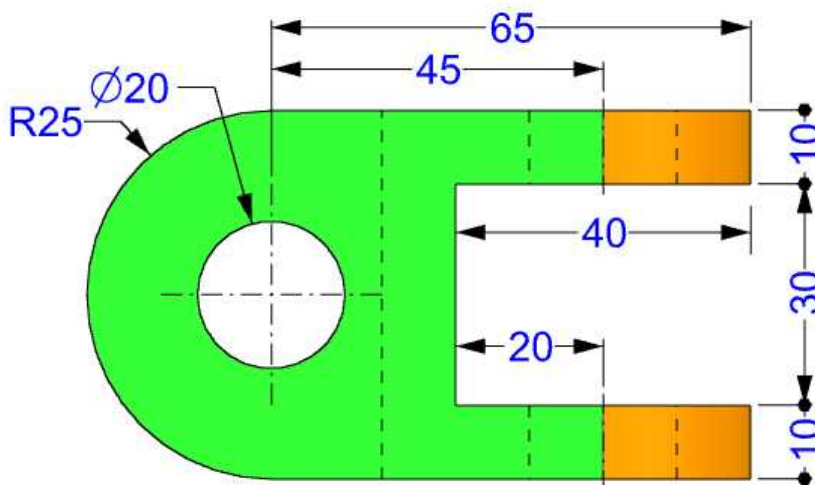
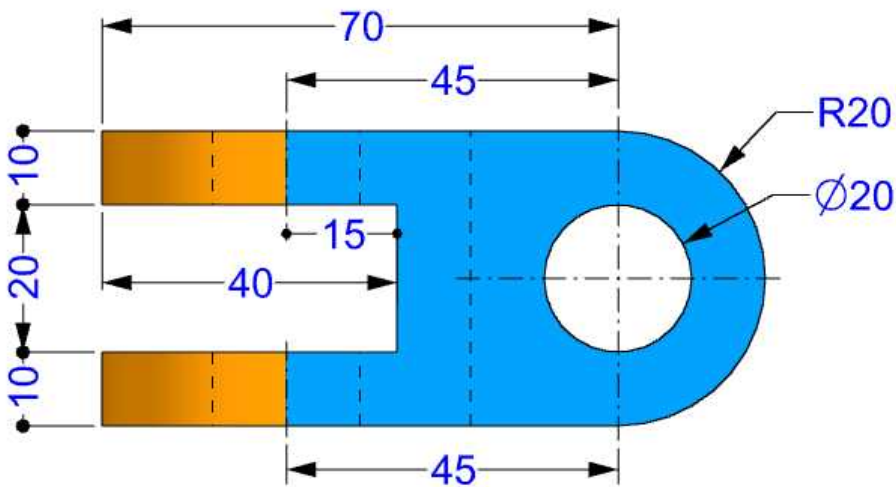
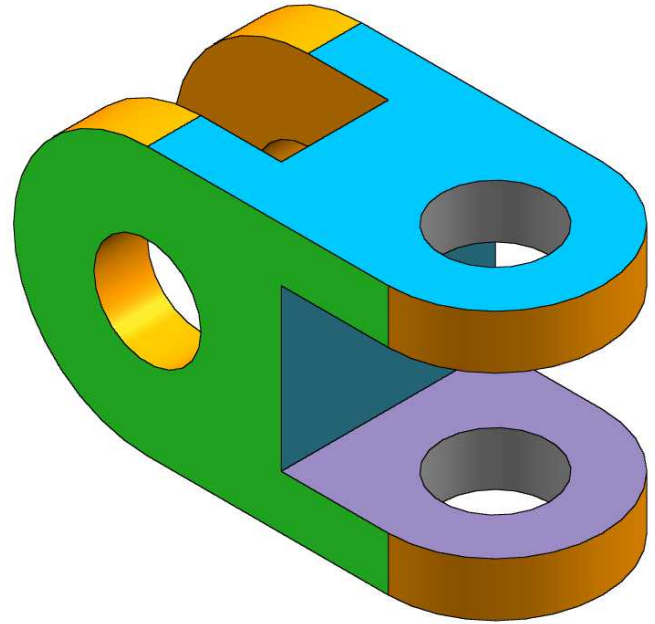
EXERCISE-61

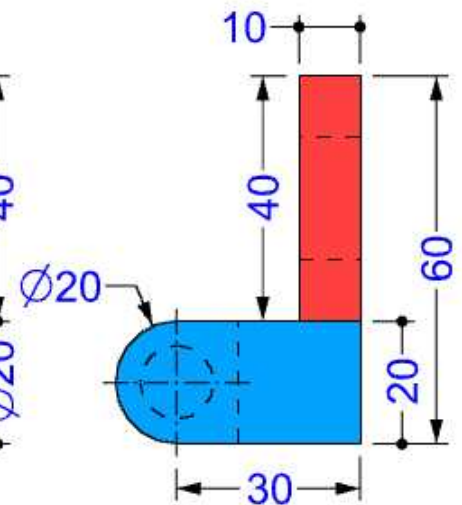
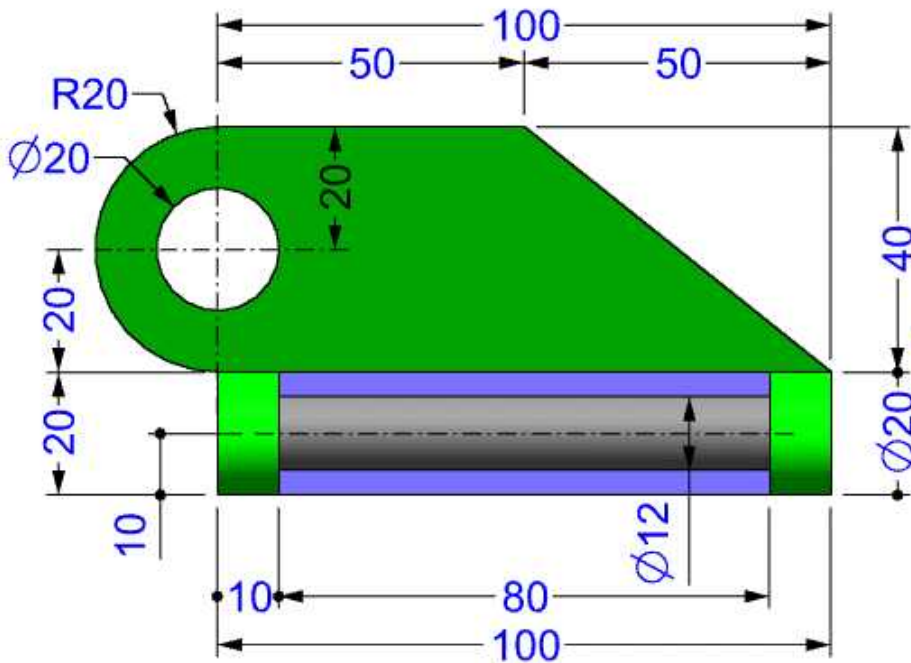
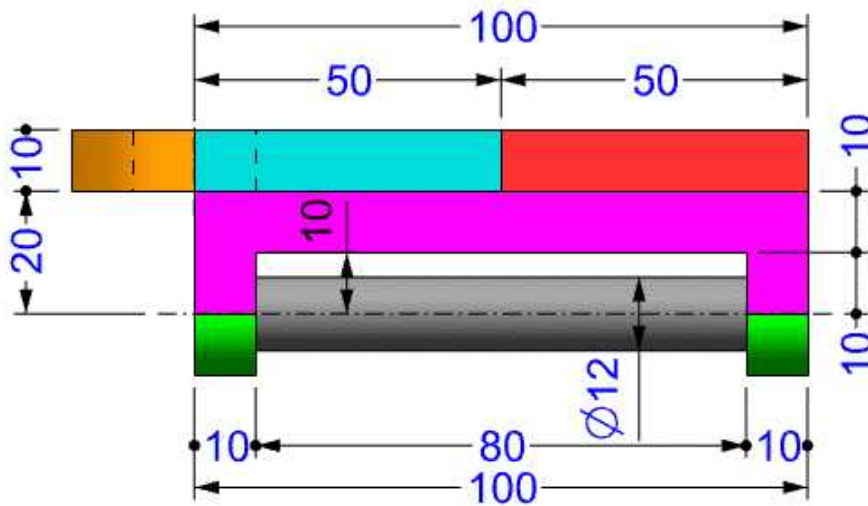
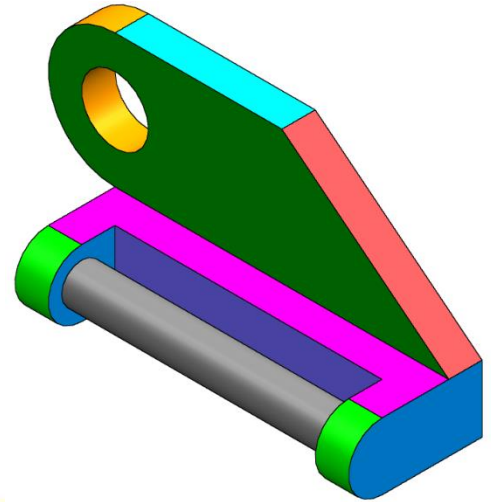
EXERCISE-62

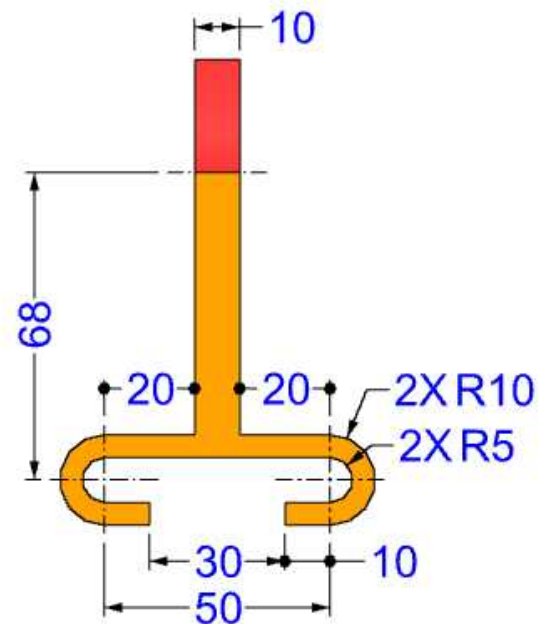
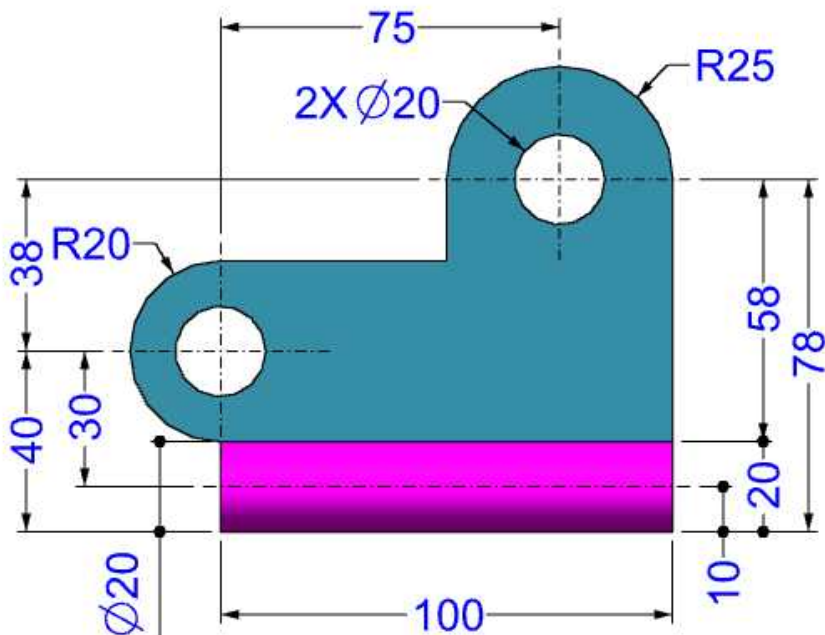
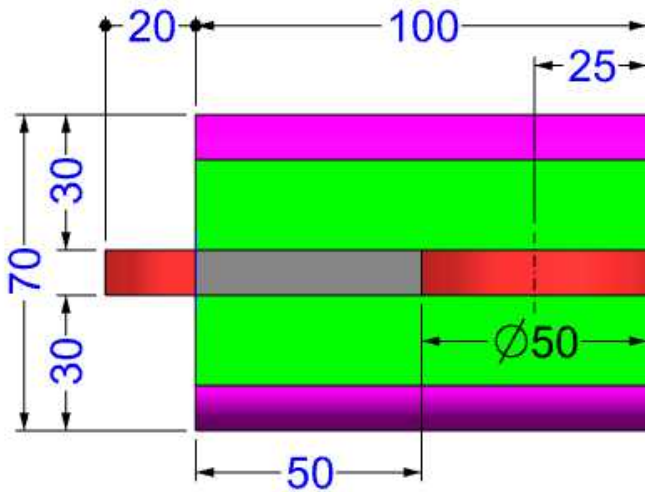
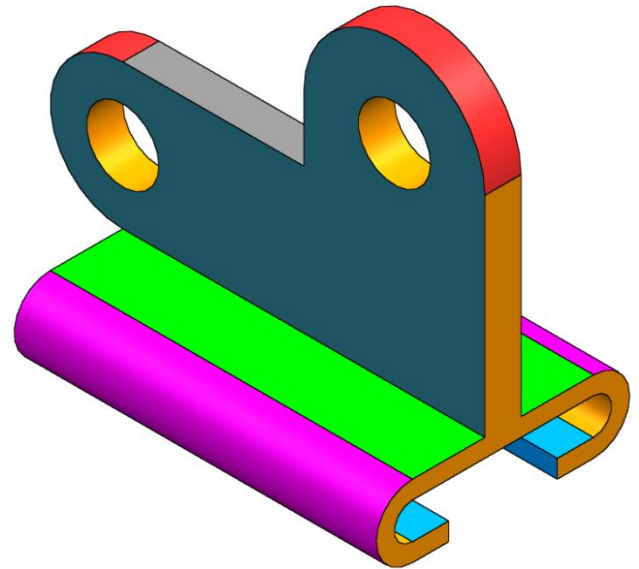
EXERCISE-63

EXERCISE-64

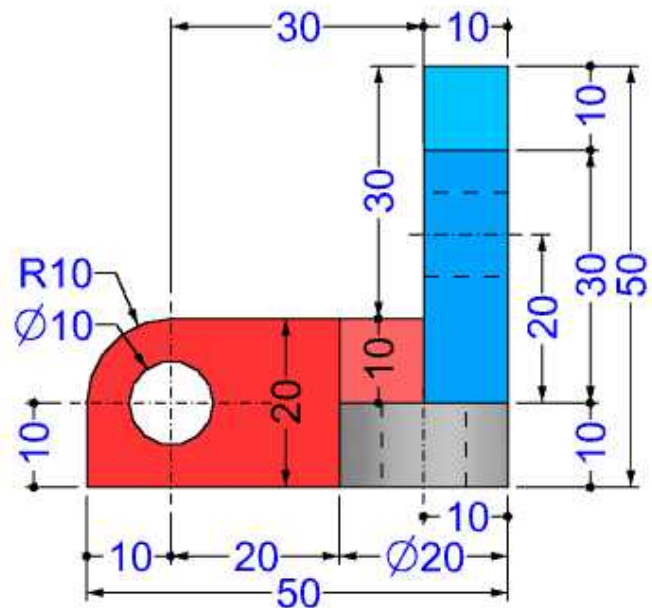
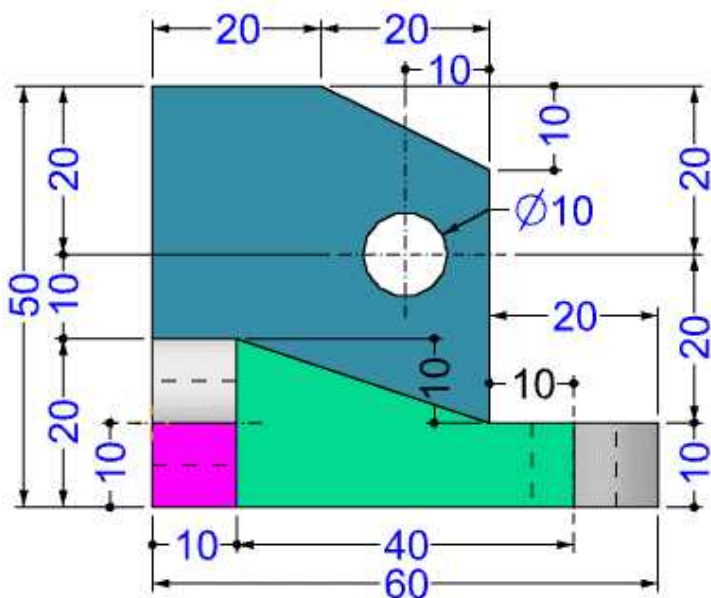
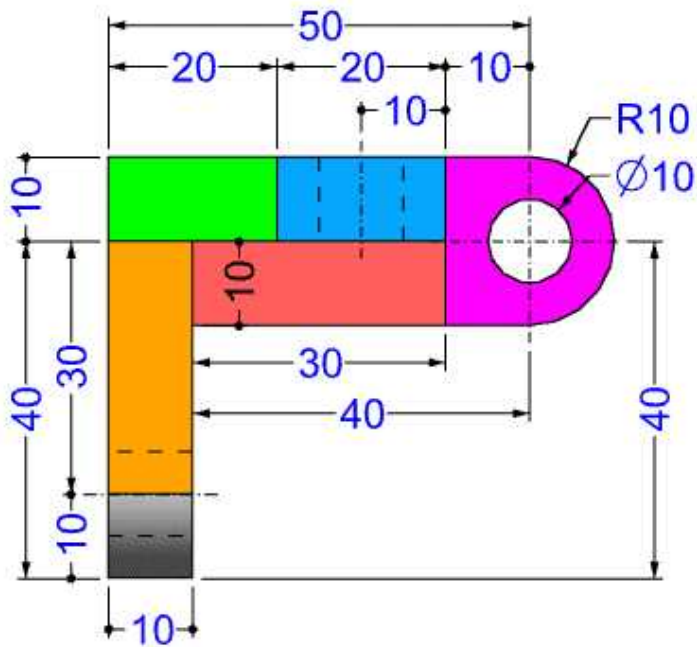
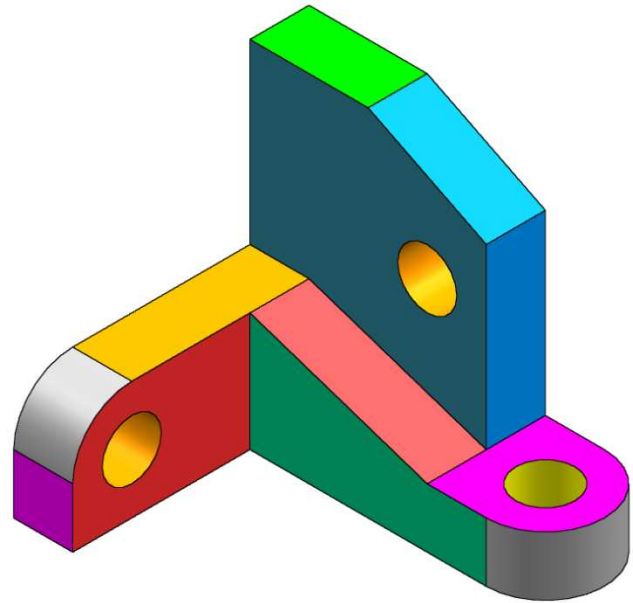


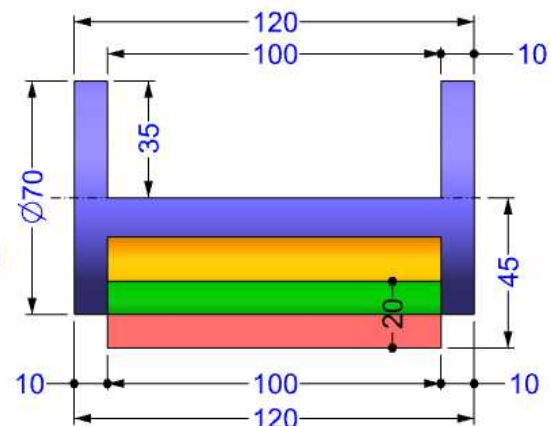
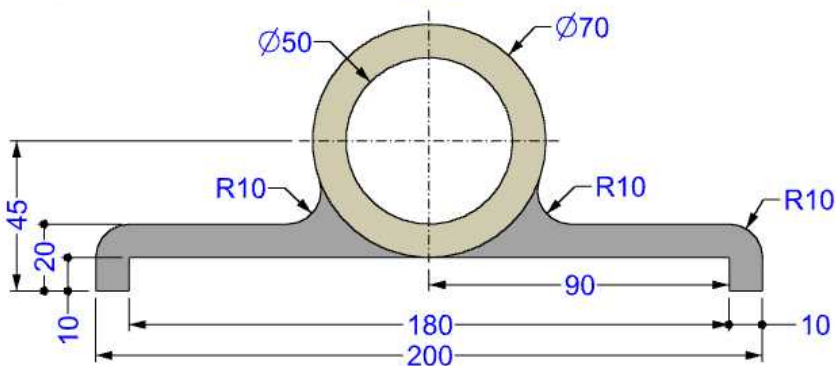
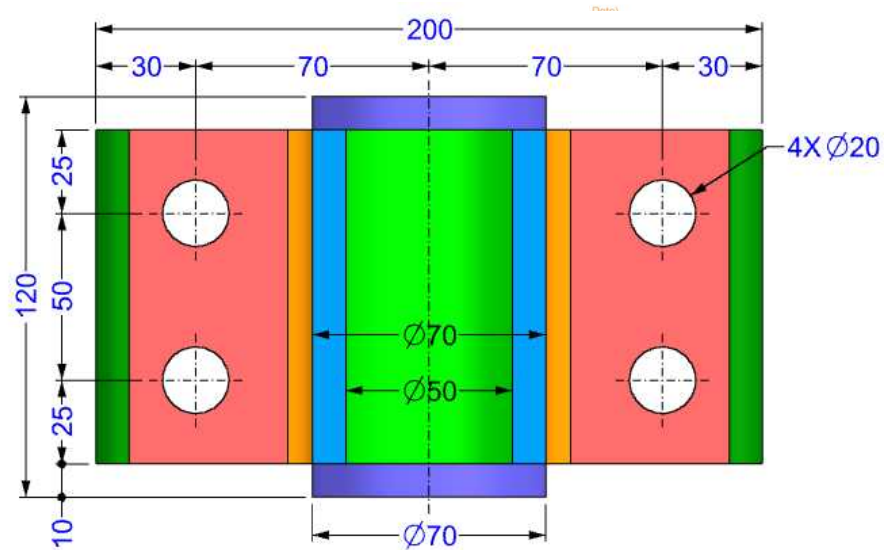
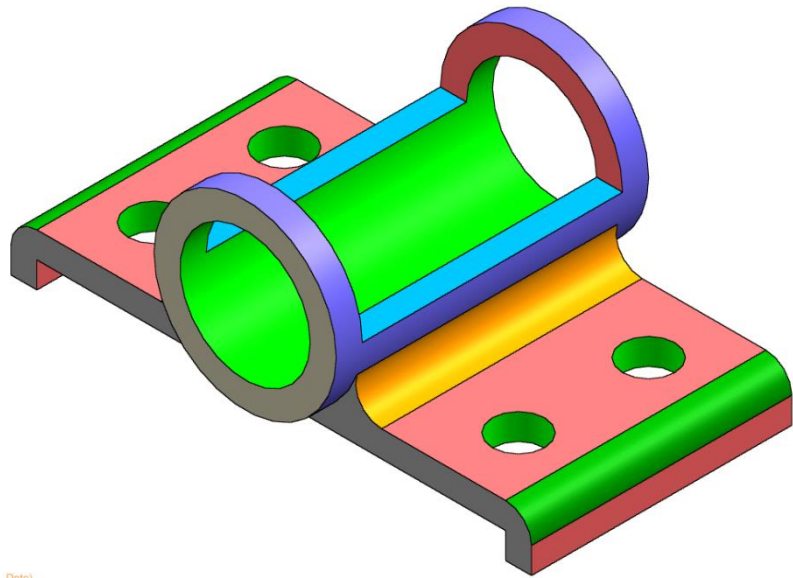
EXERCISE-65

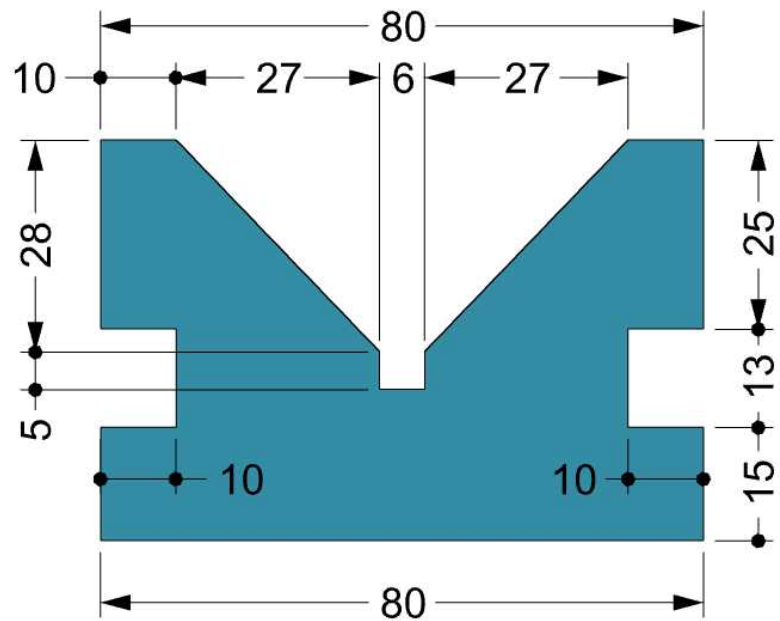
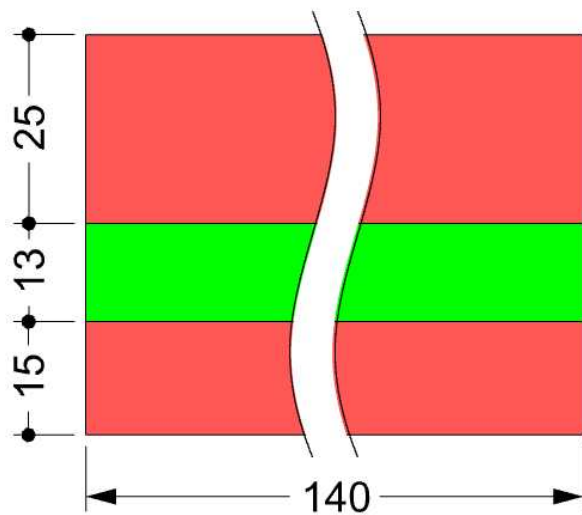
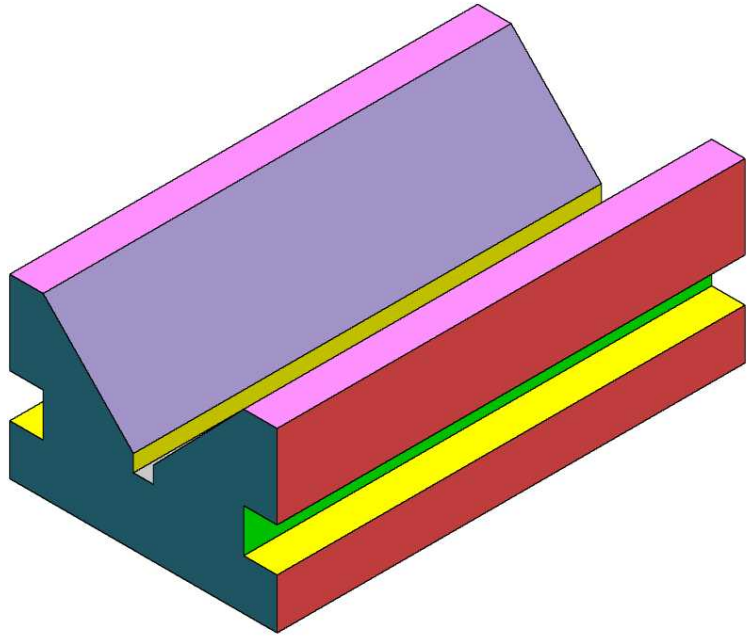
EXERCISE-66

EXERCISE-67

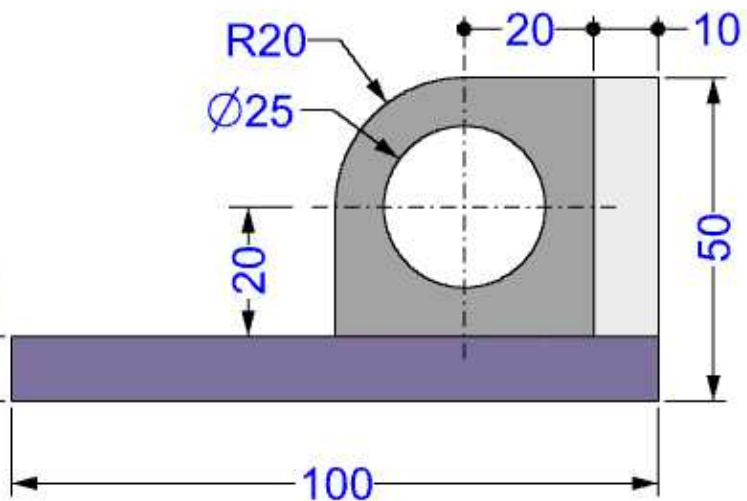
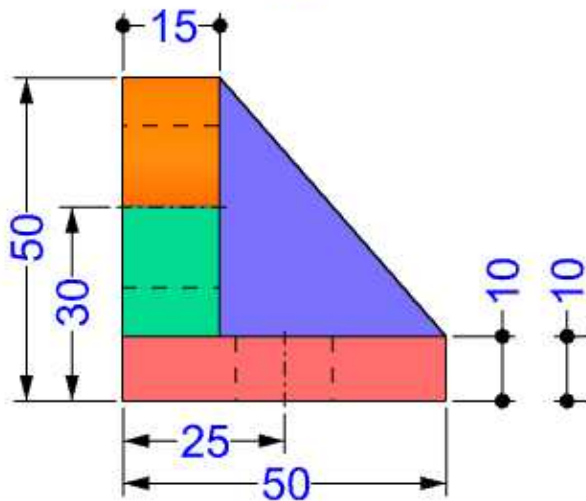
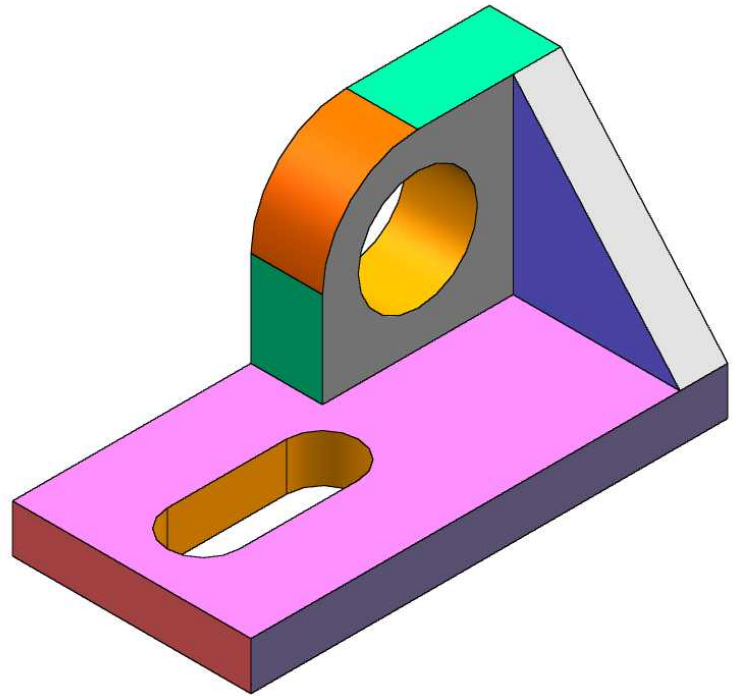
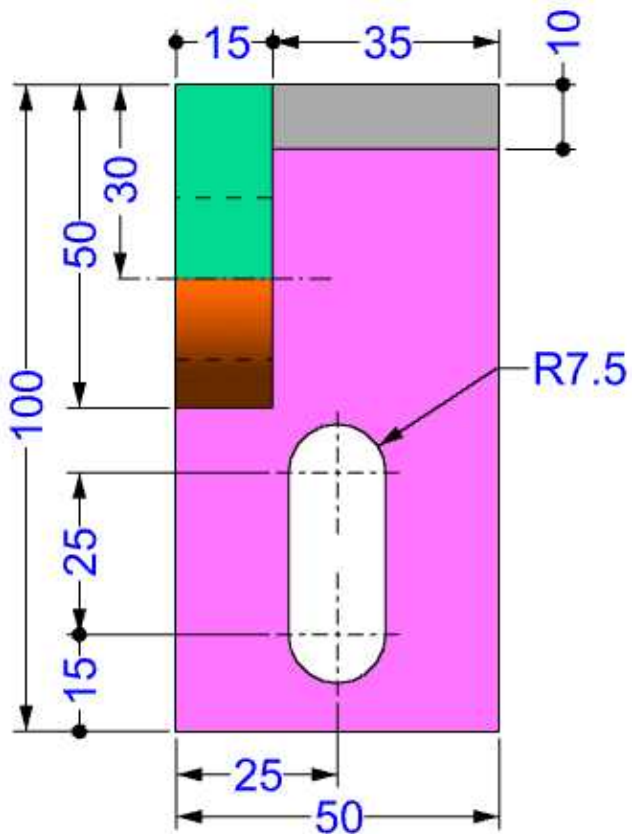
EXERCISE-68



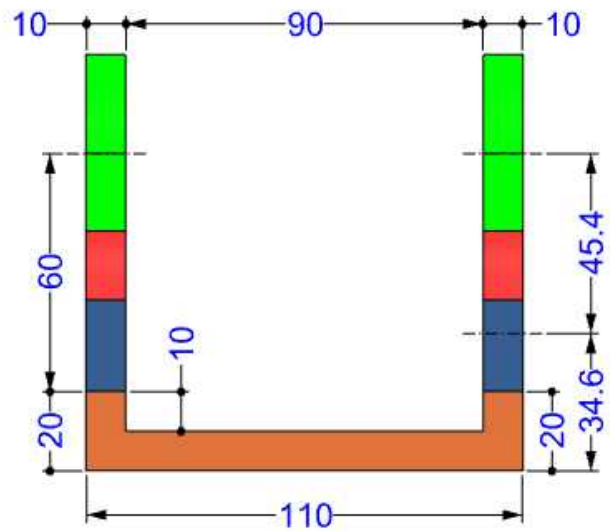
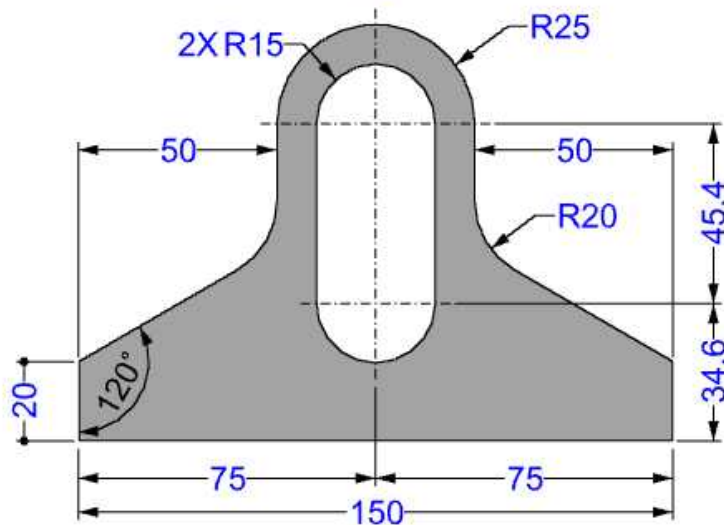
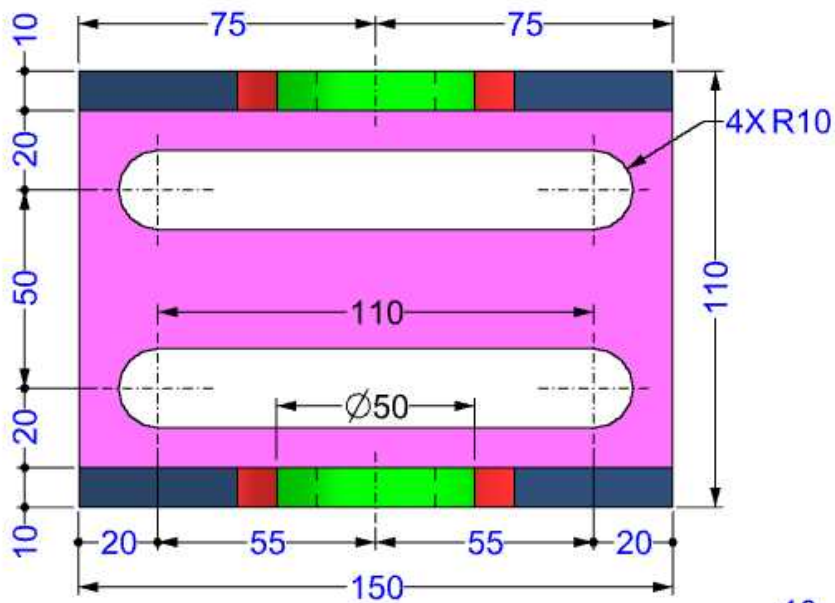
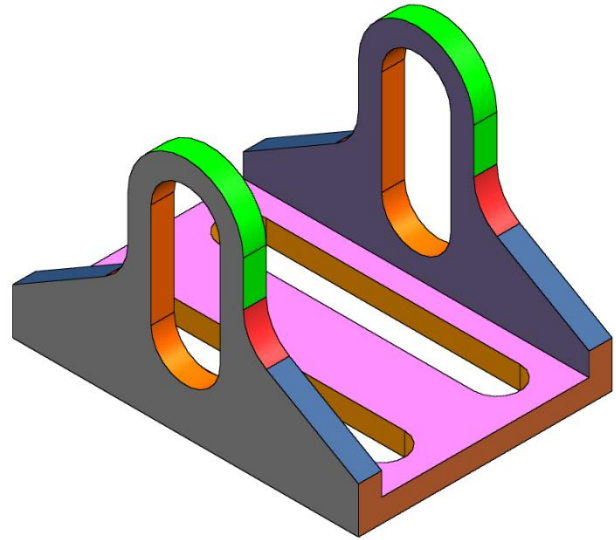
EXERCISE-69

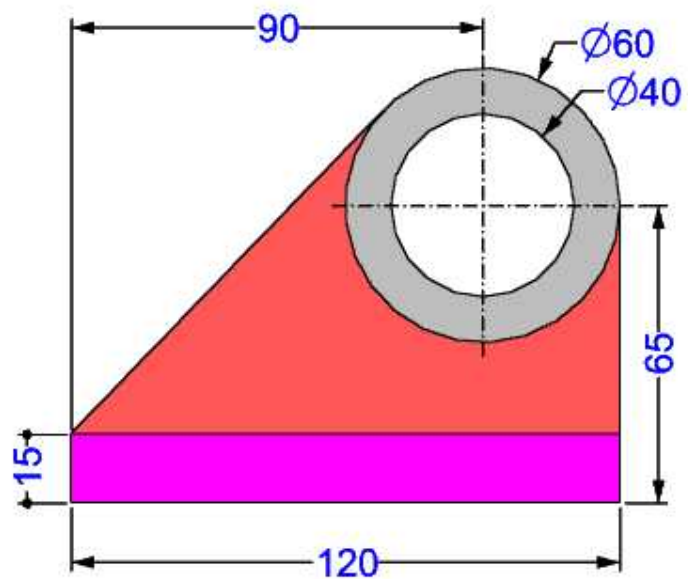
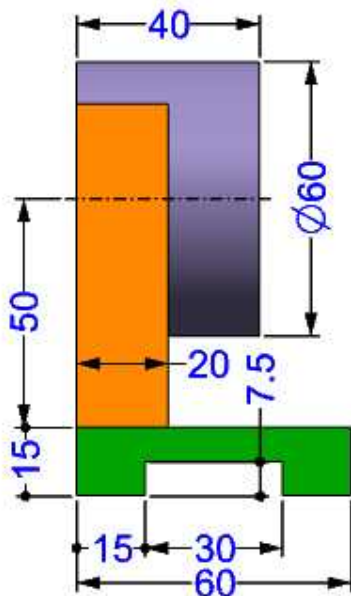
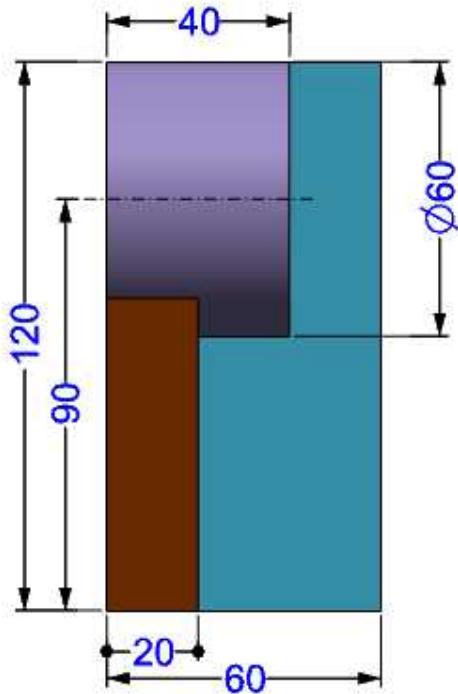
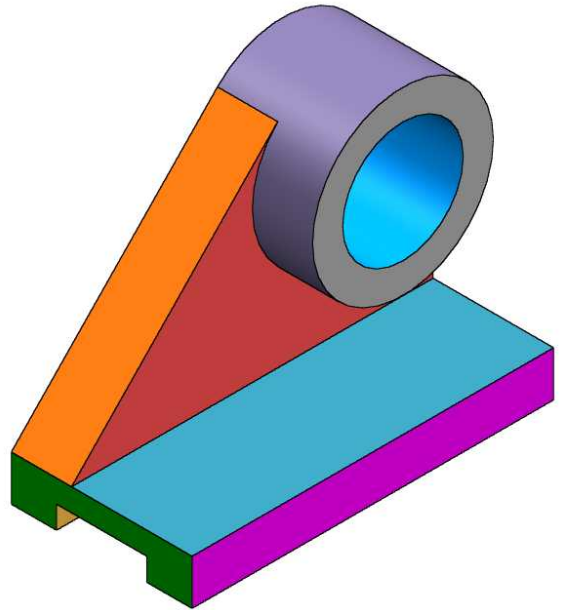
EXERCISE-70

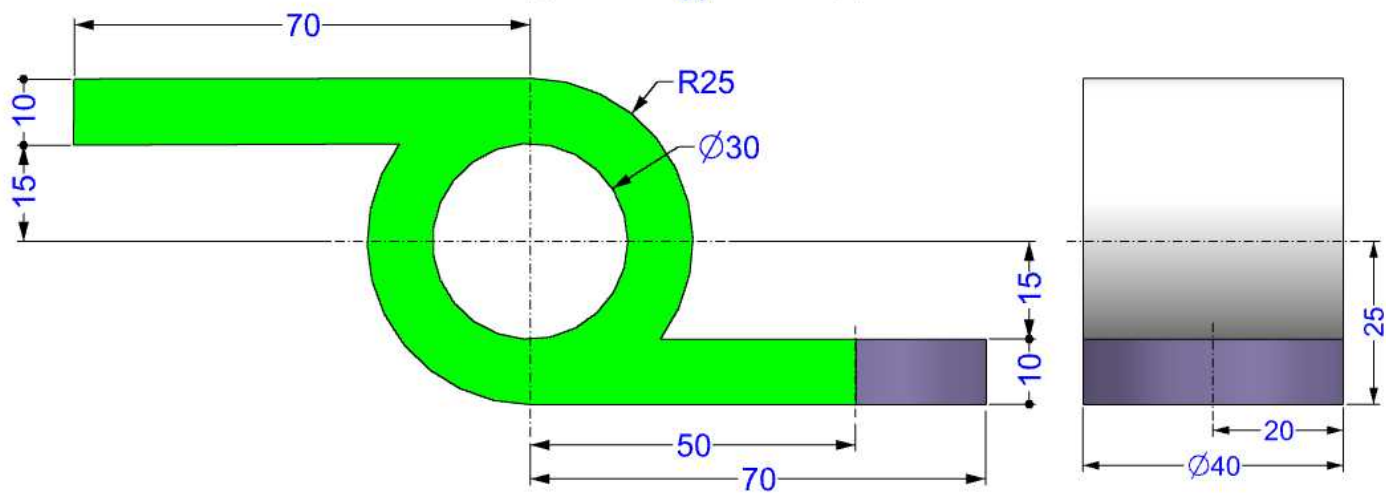
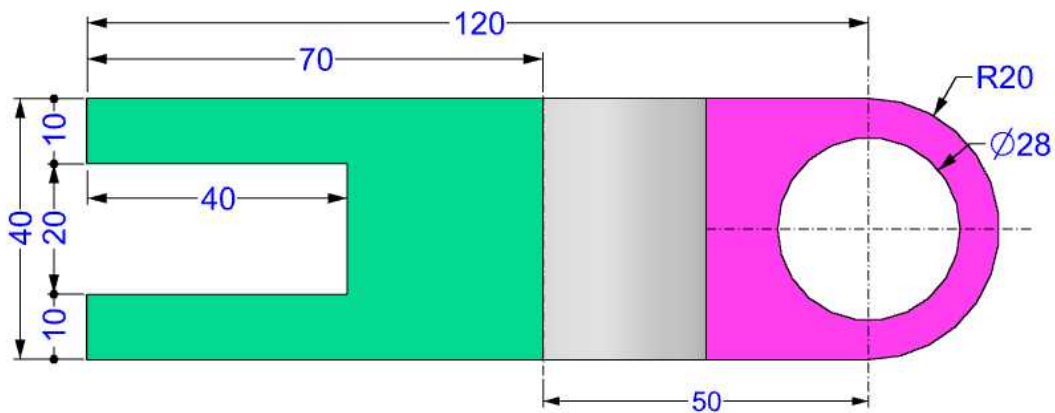
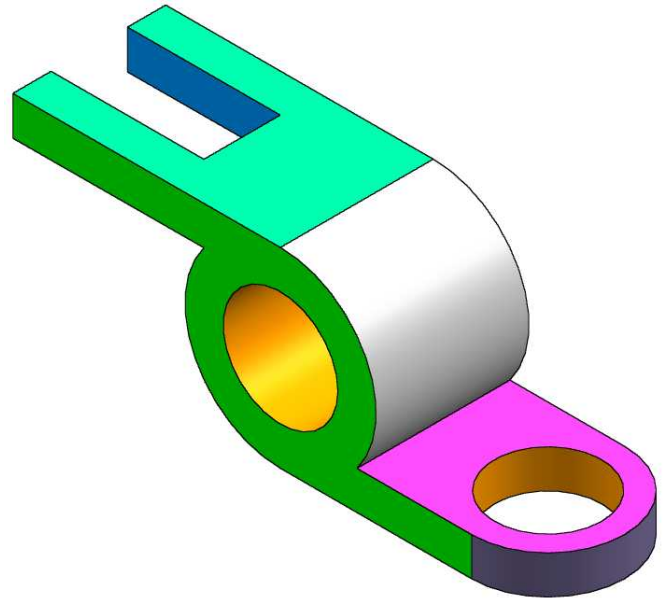
EXERCISE-71

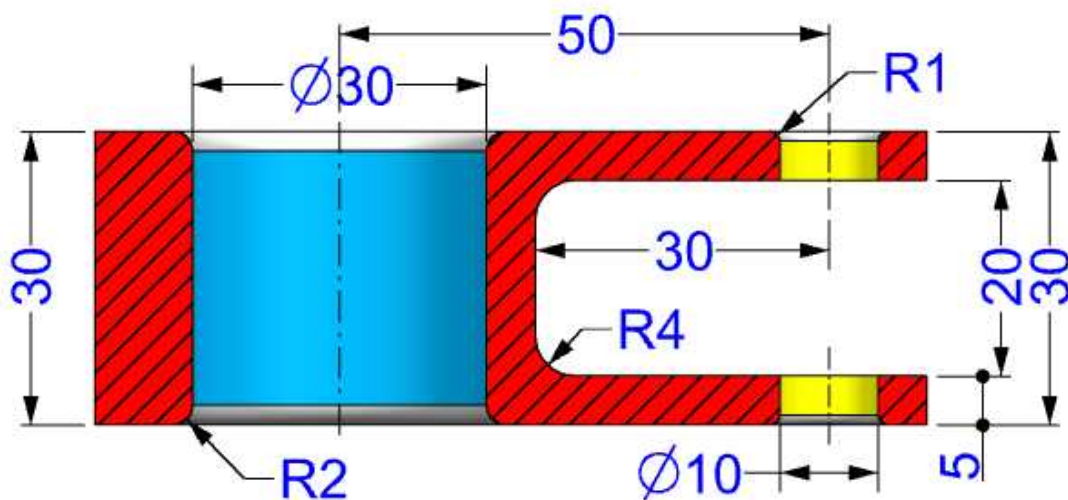
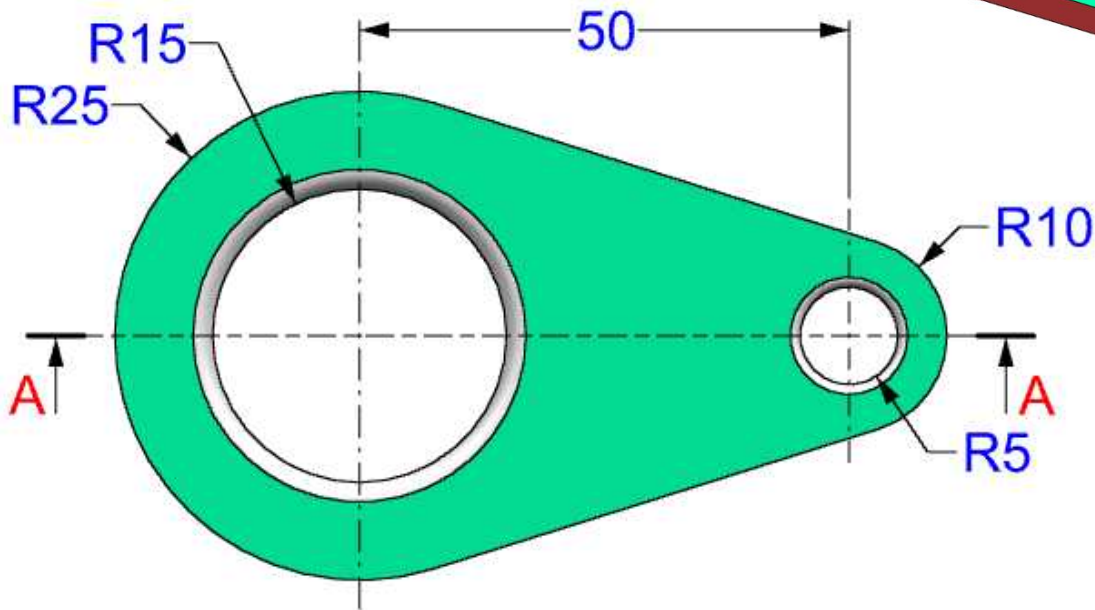
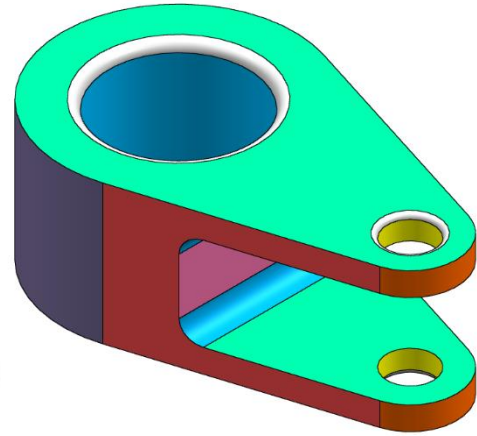


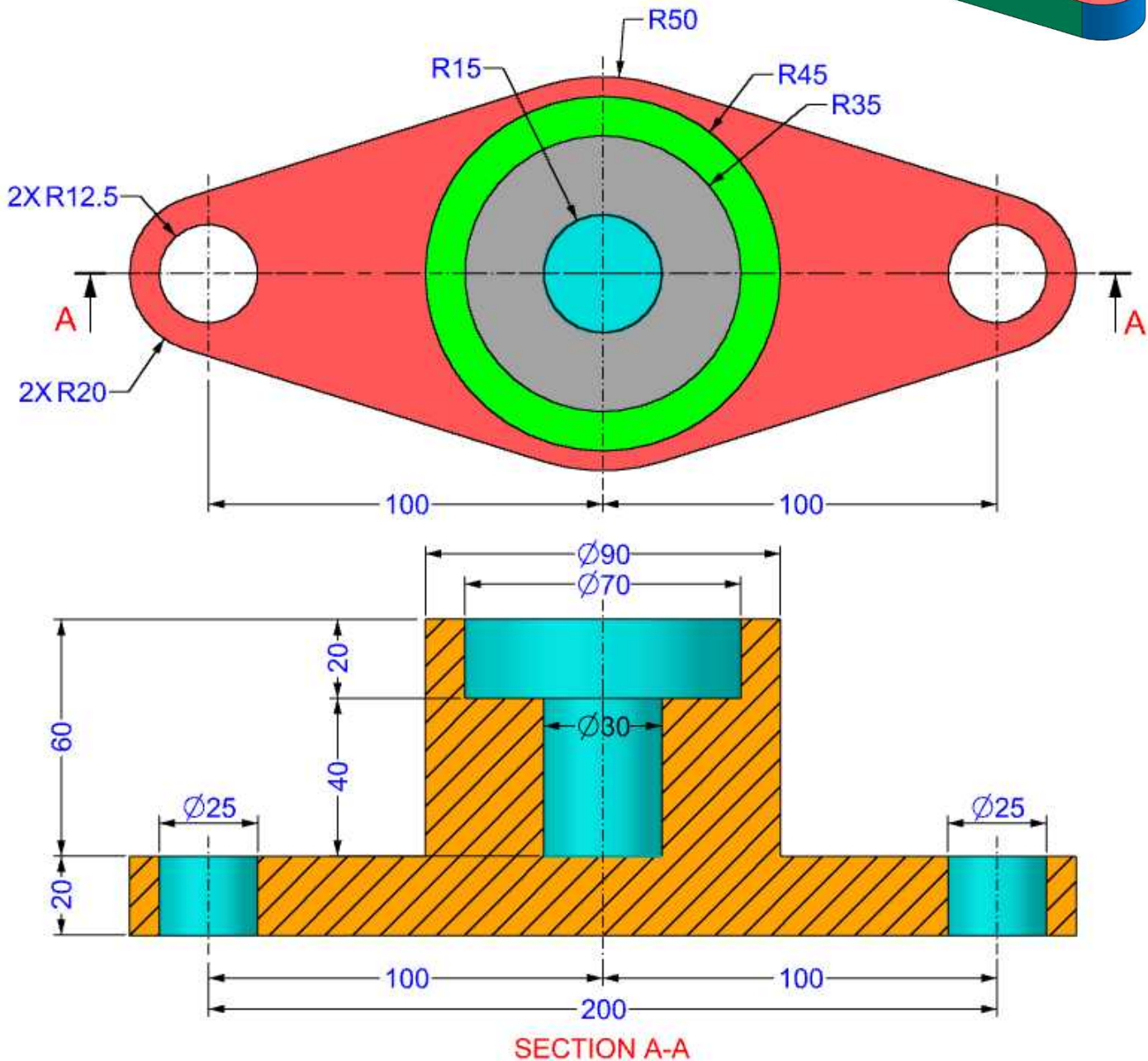
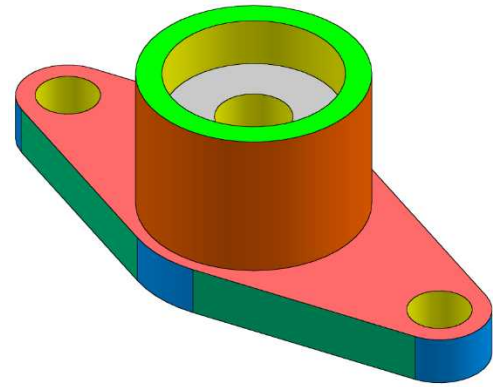
EXERCISE-72

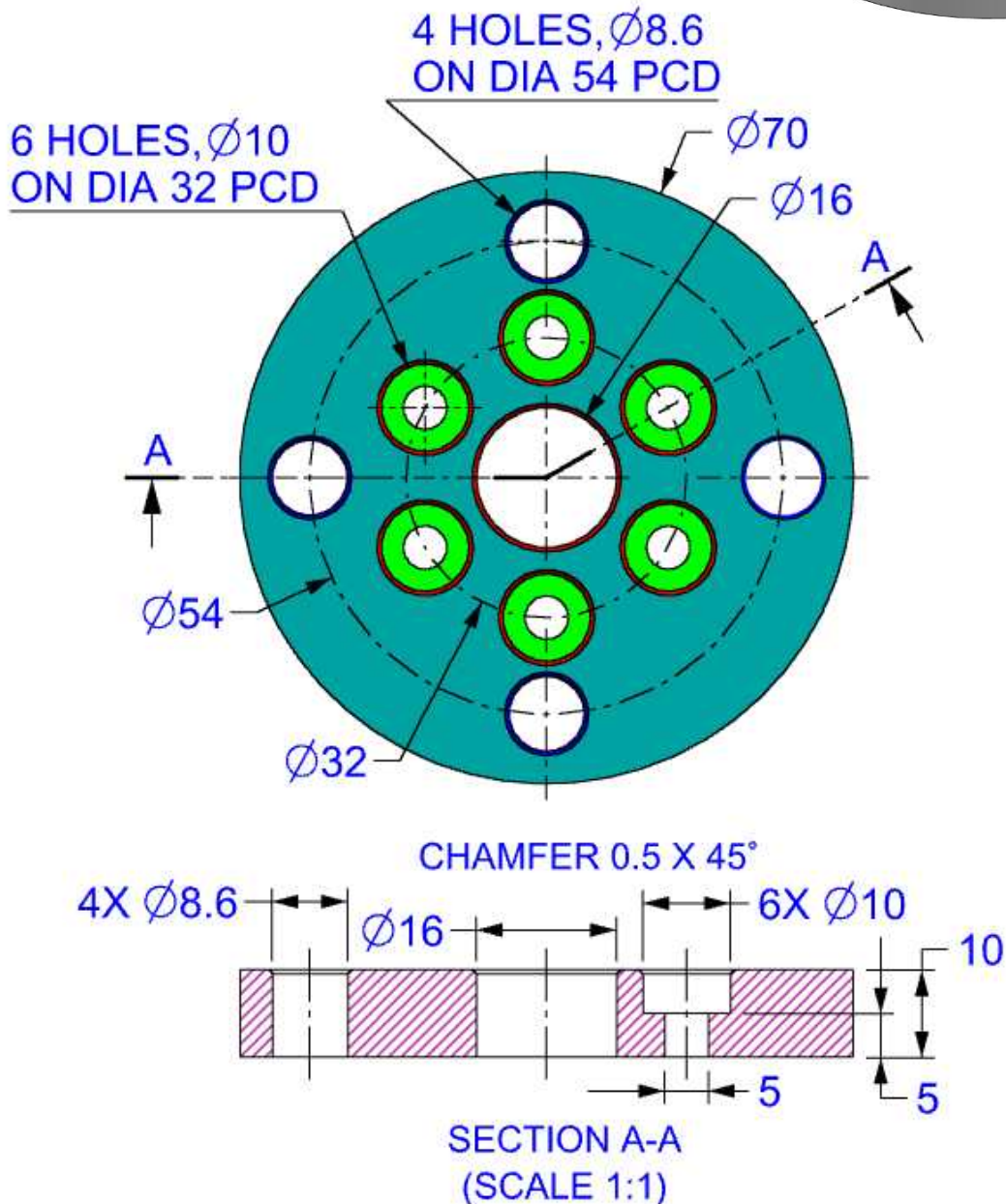
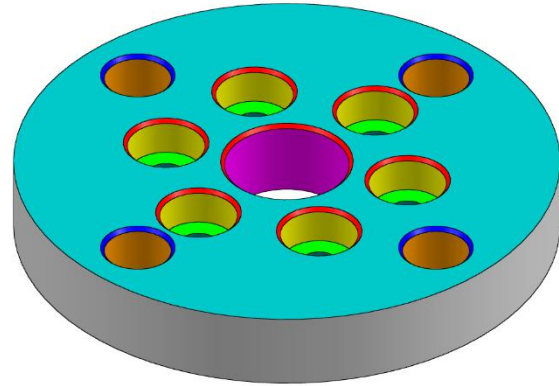


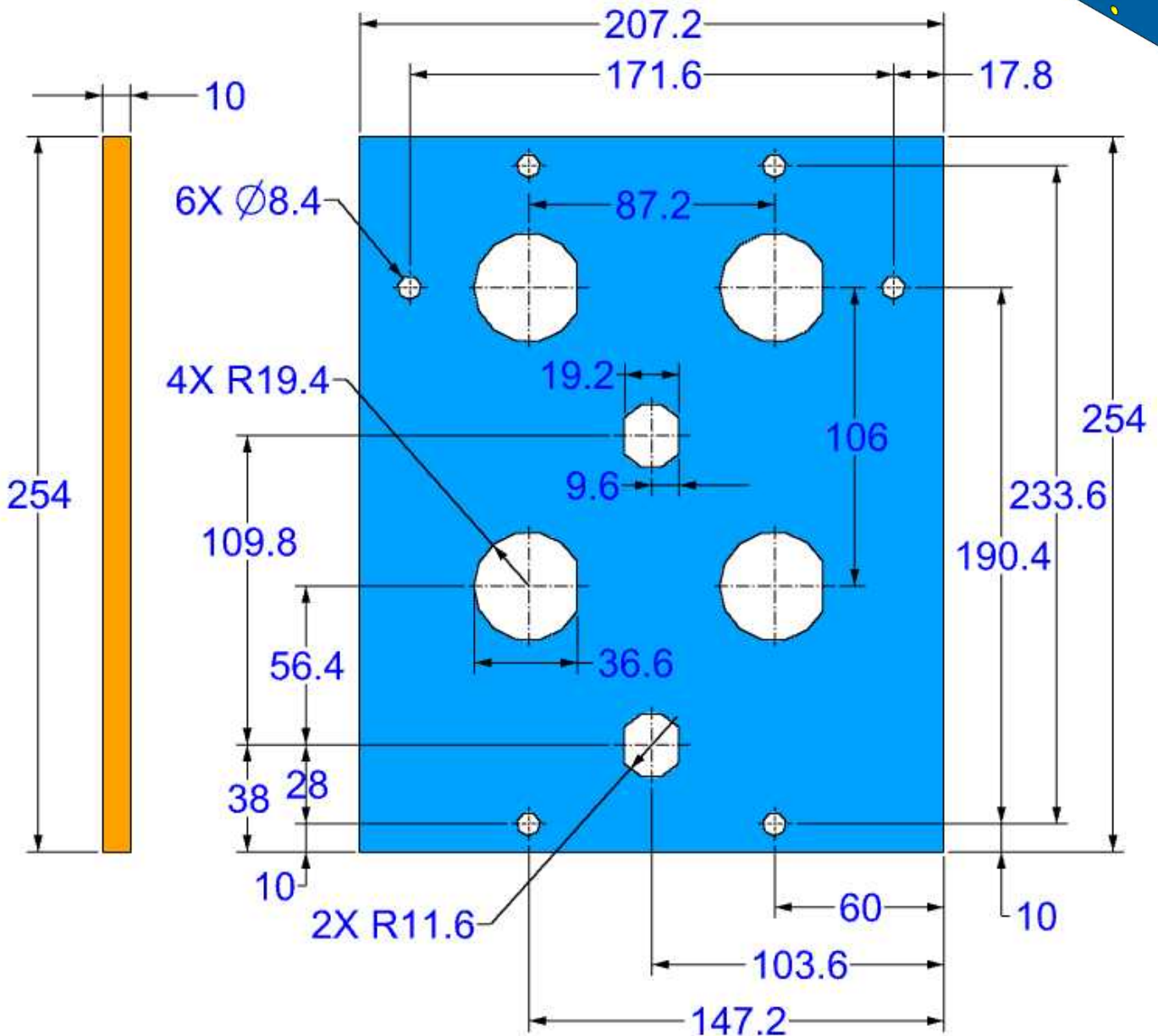
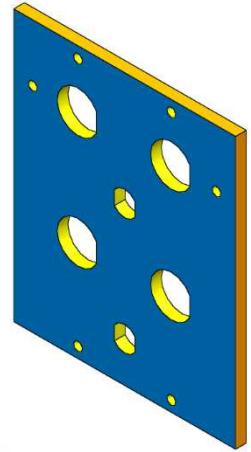
EXERCISE-73

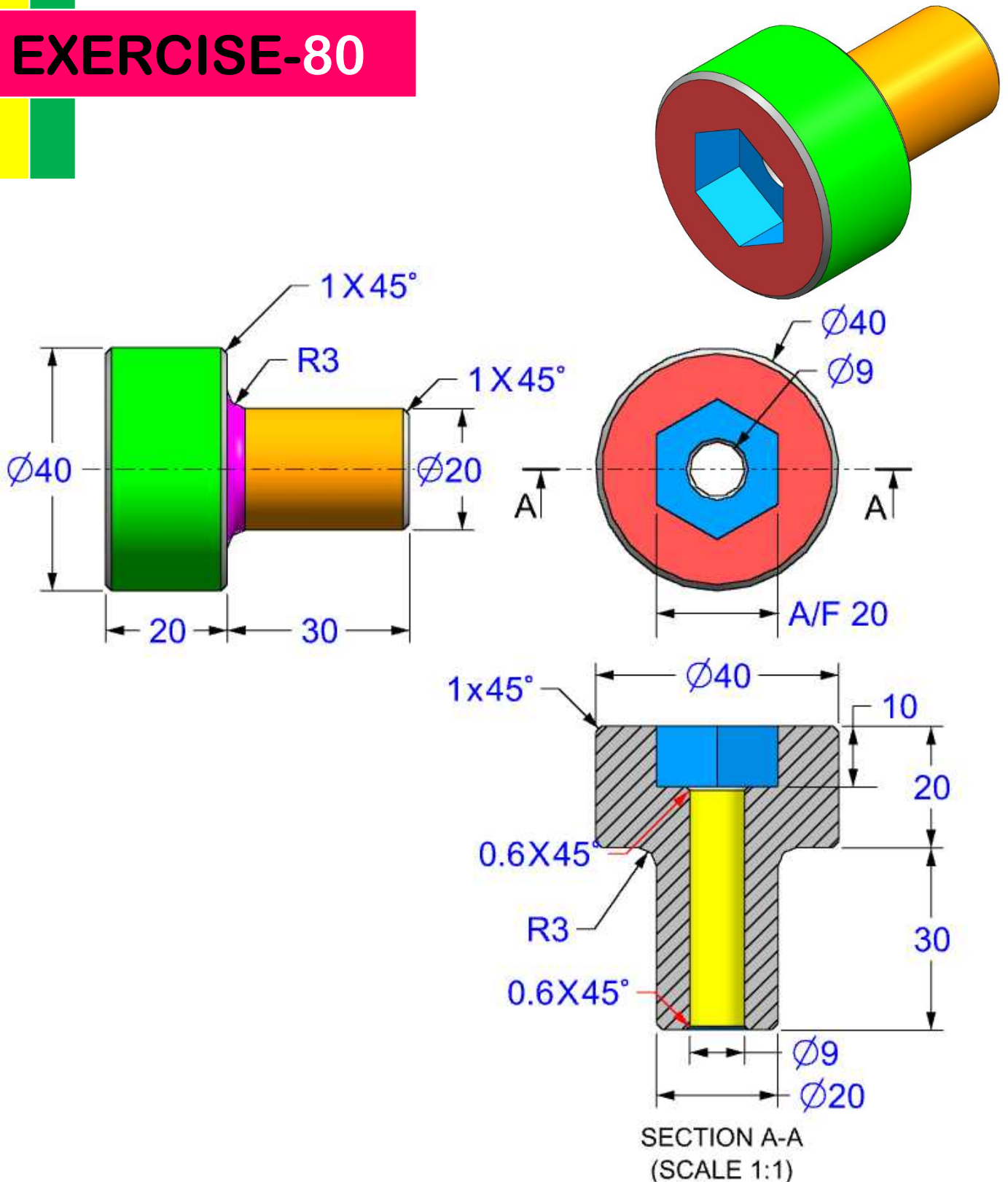
EXERCISE-74

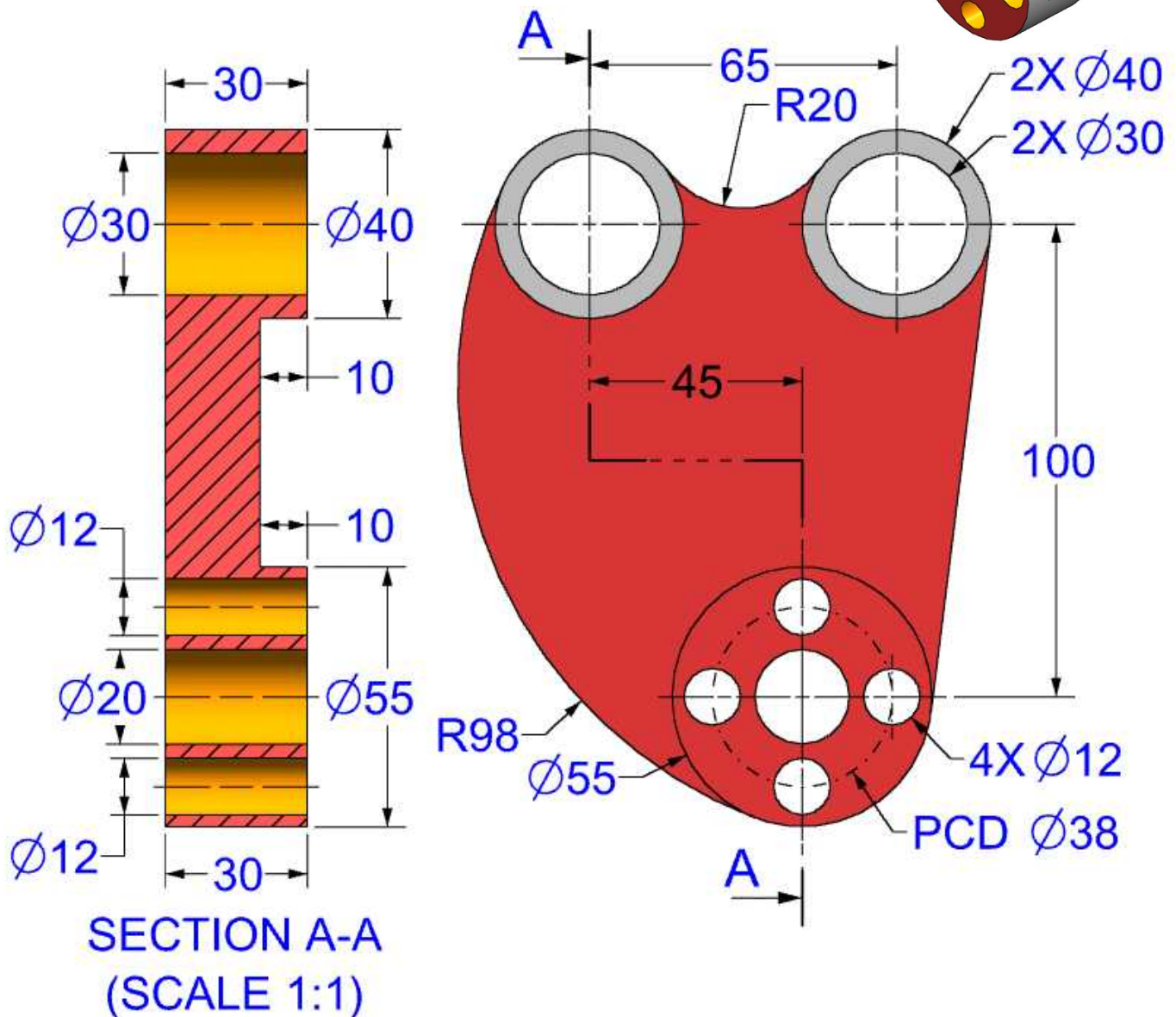
EXERCISE-75**SECTION A-A**

EXERCISE-76

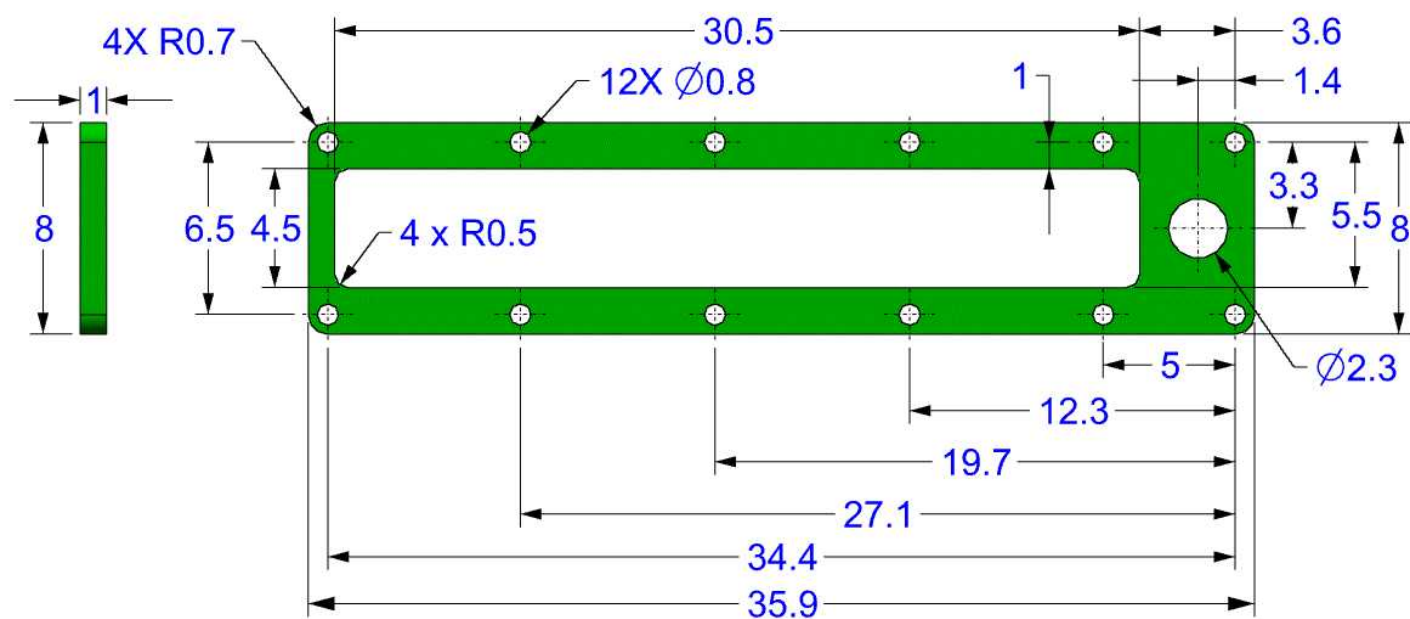
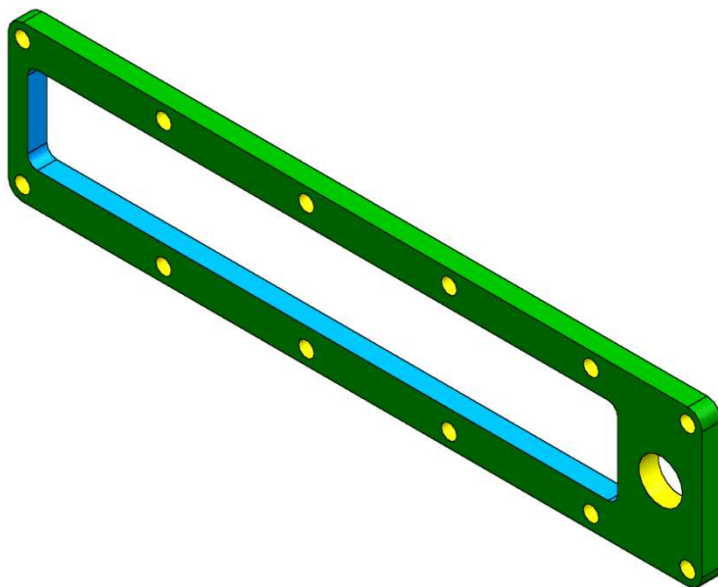
EXERCISE-78

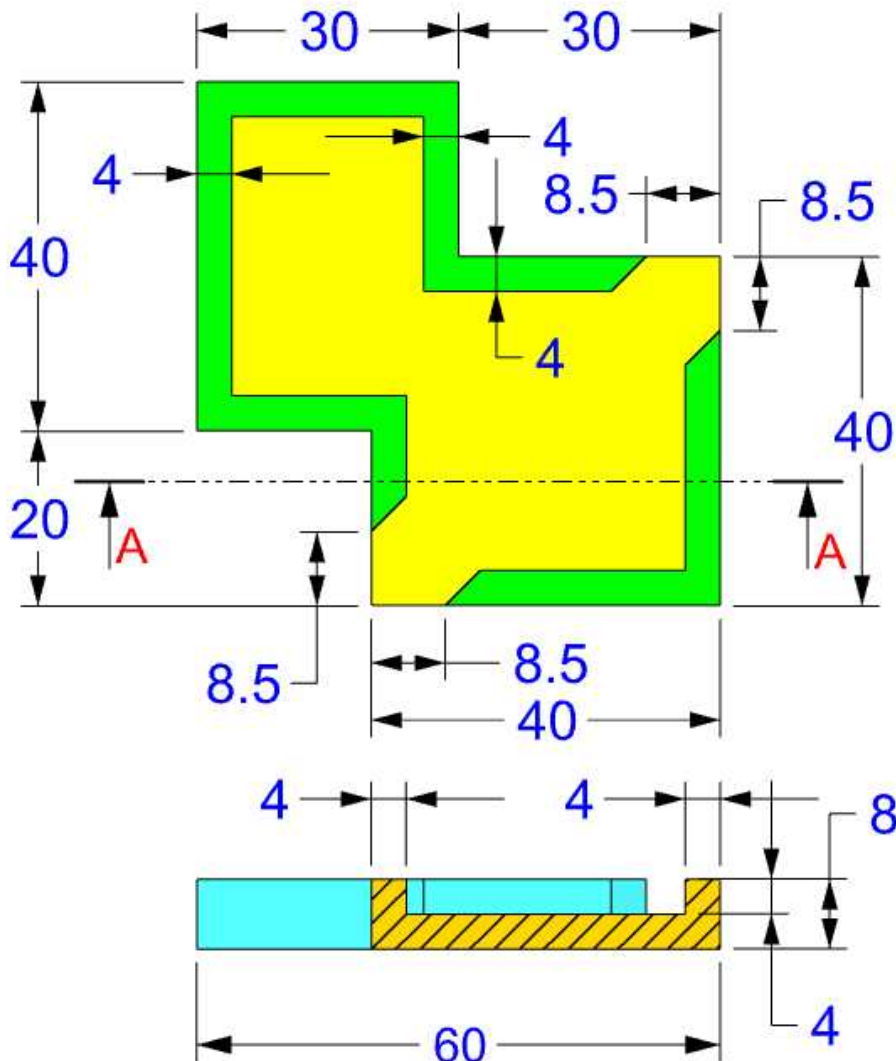
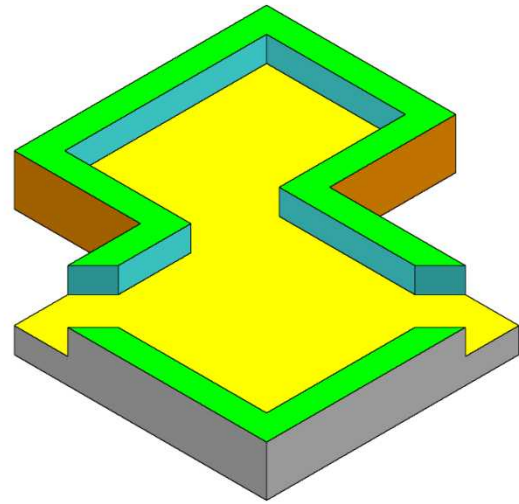
EXERCISE-79

EXERCISE-80

EXERCISE-81

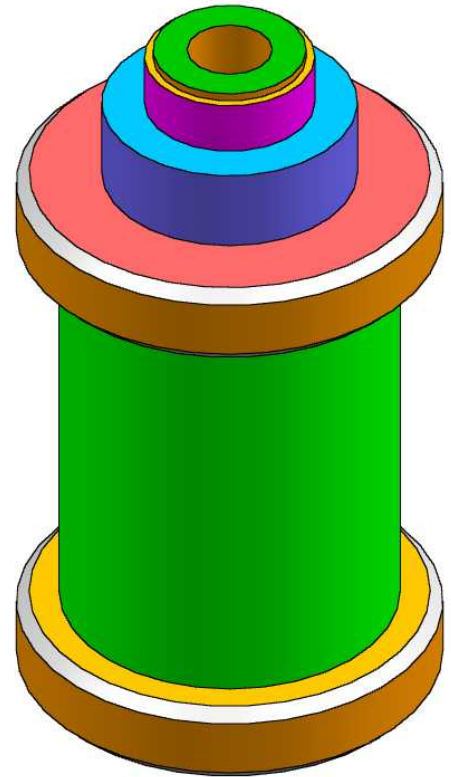
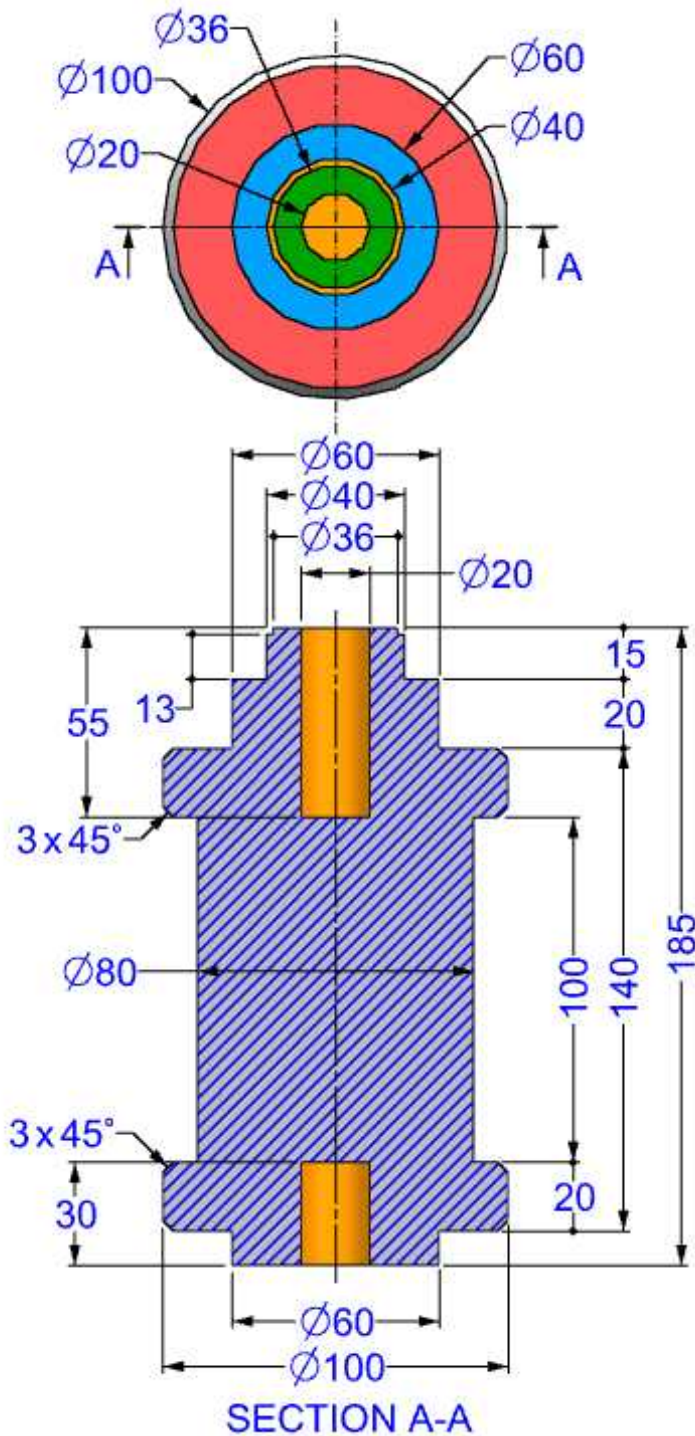
EXERCISE-82

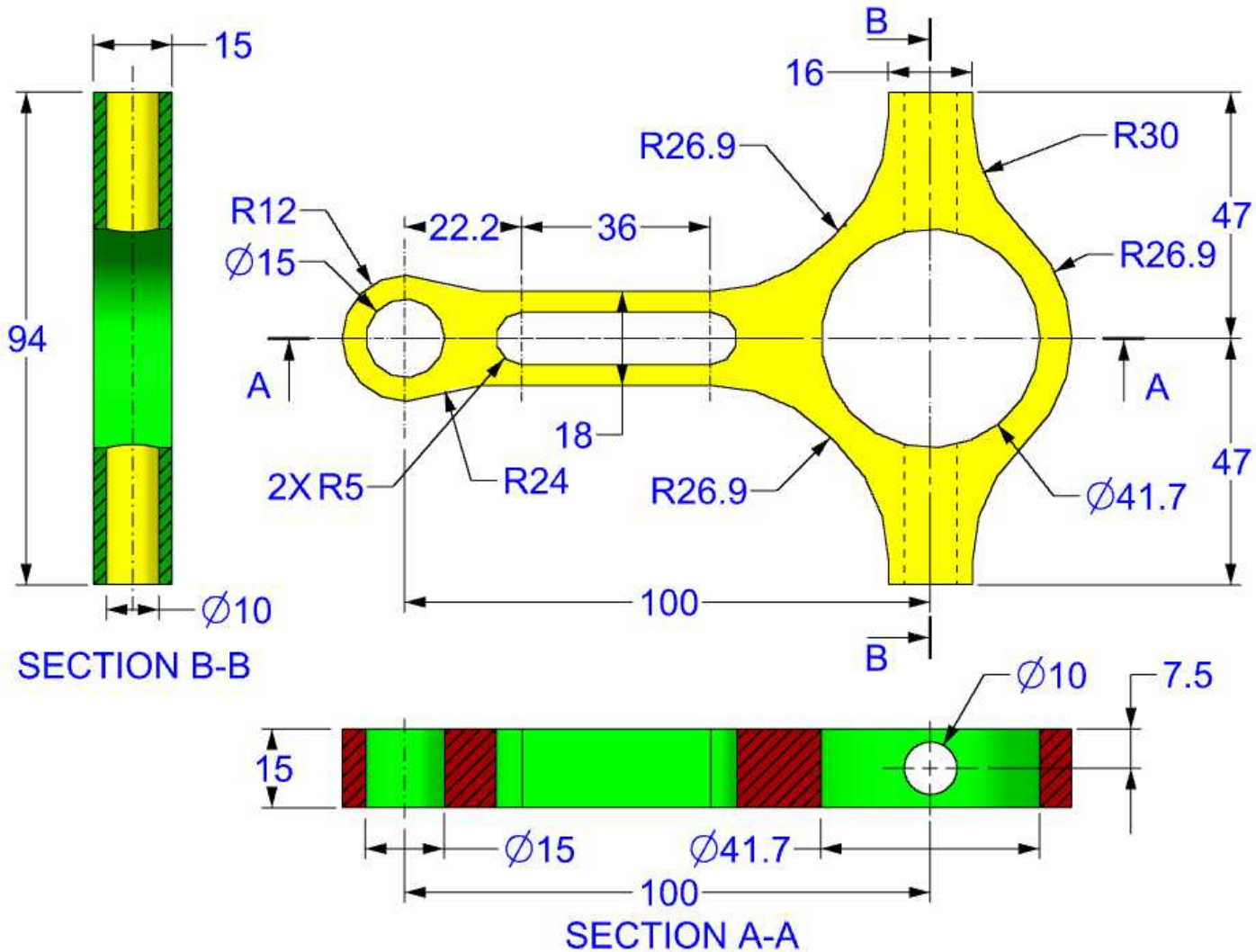
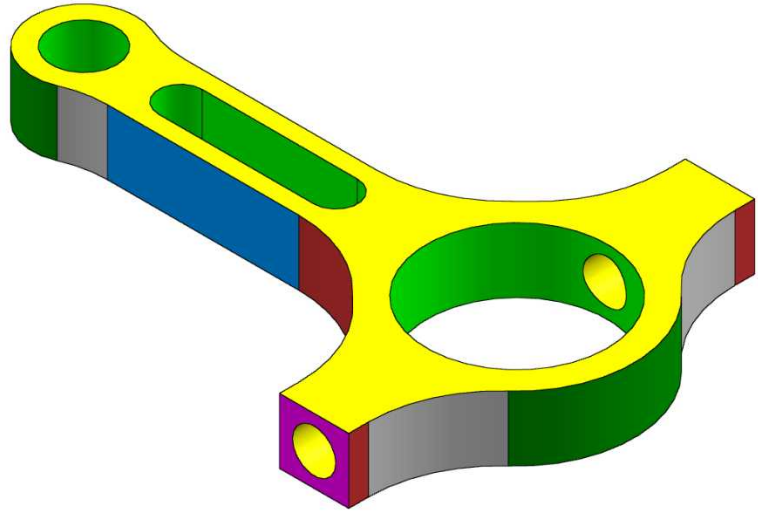


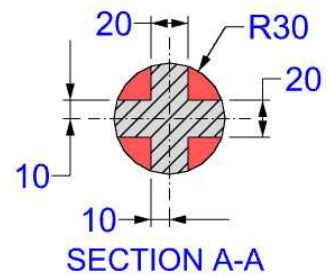
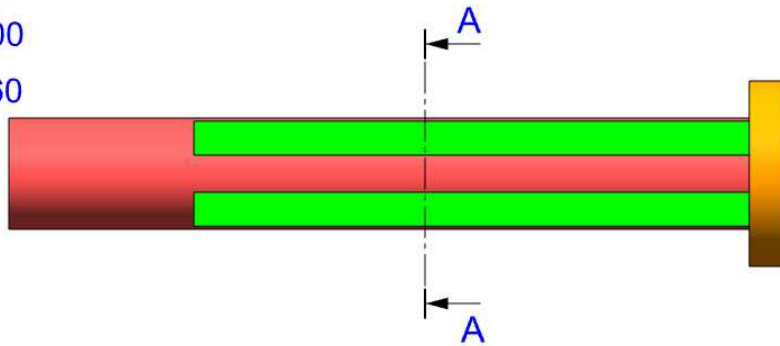
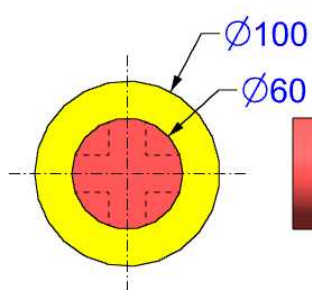
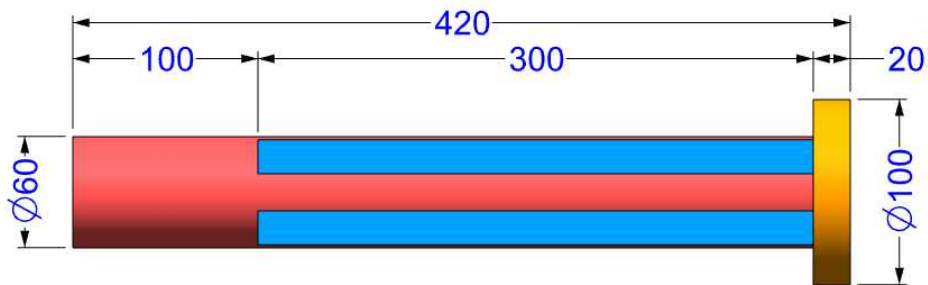
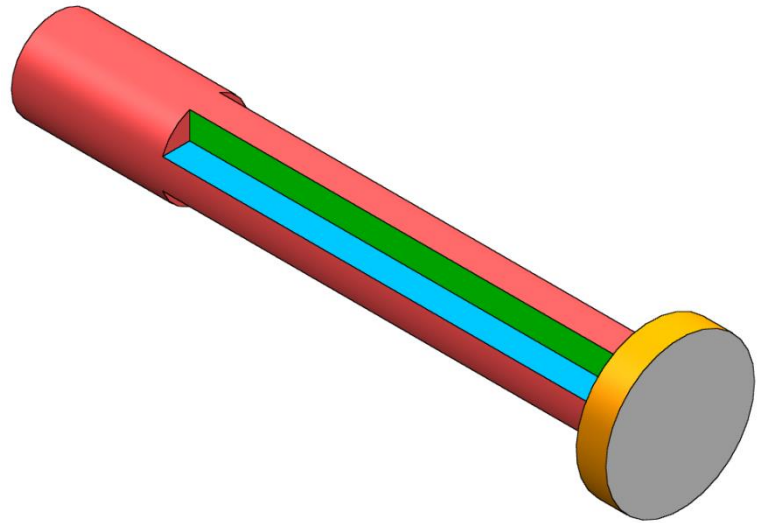
EXERCISE-84

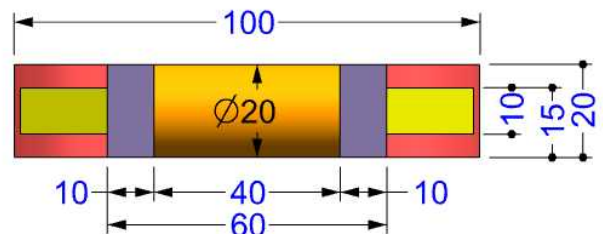
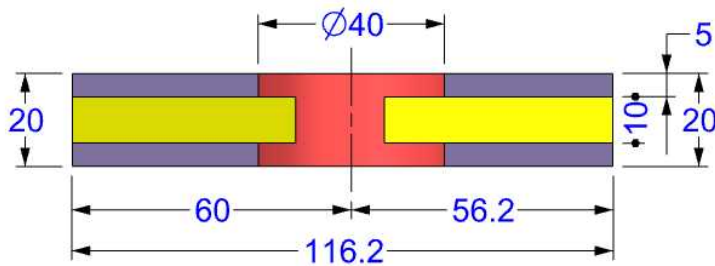
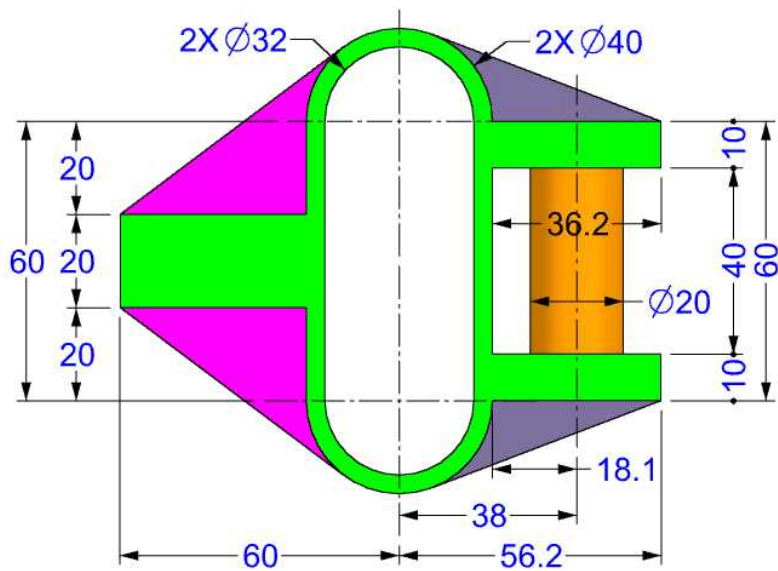
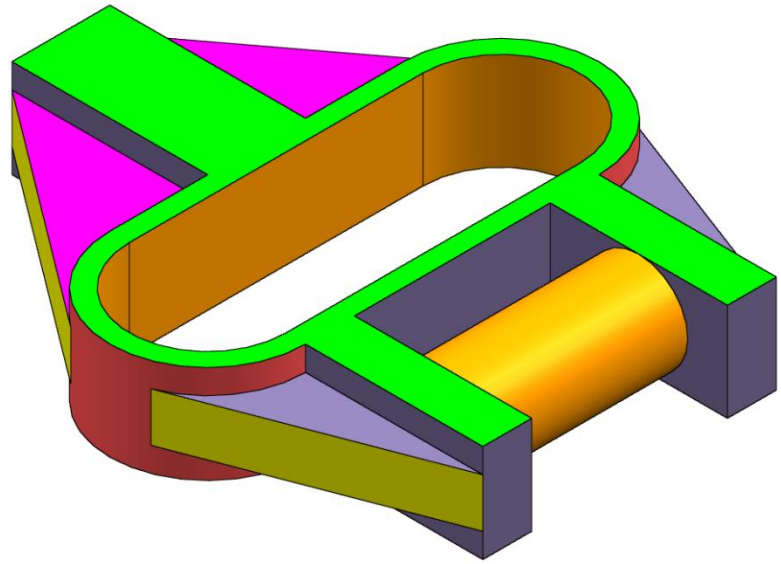
SECTION A-A
(SCALE 1:1)

EXERCISE-85

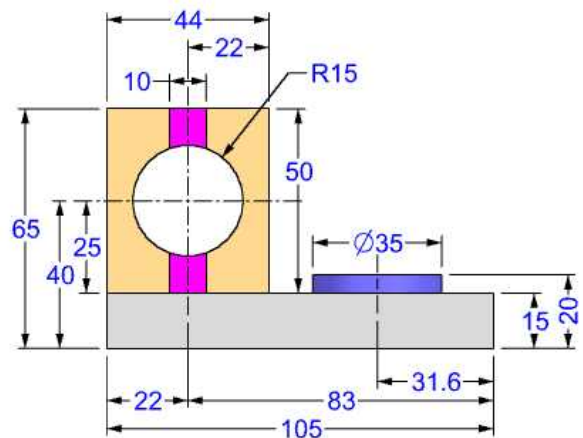
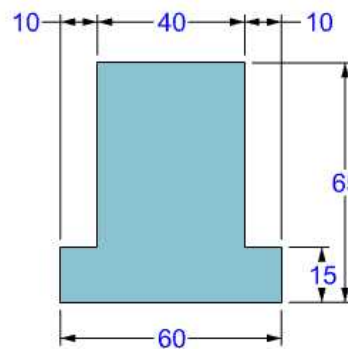
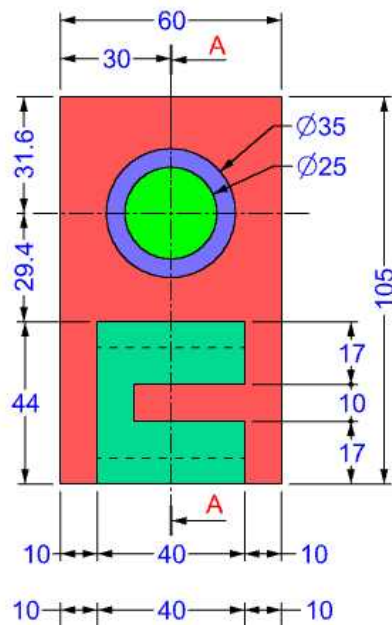
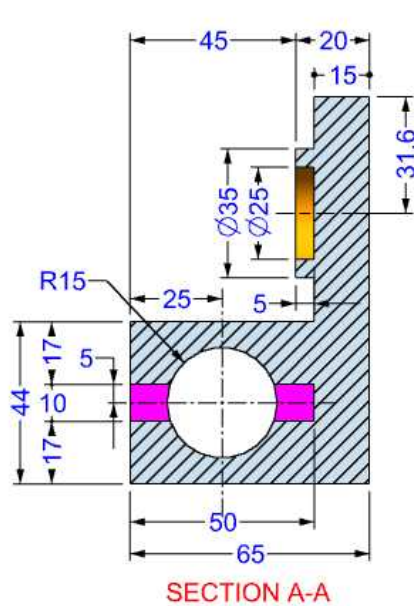
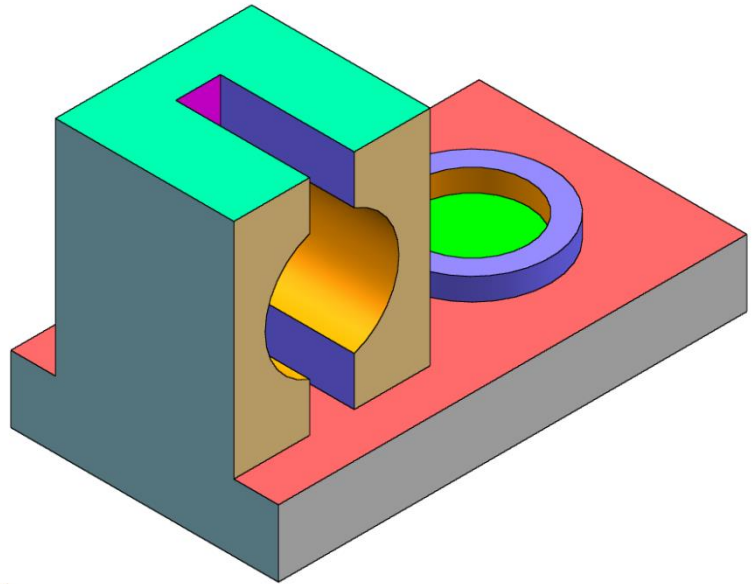


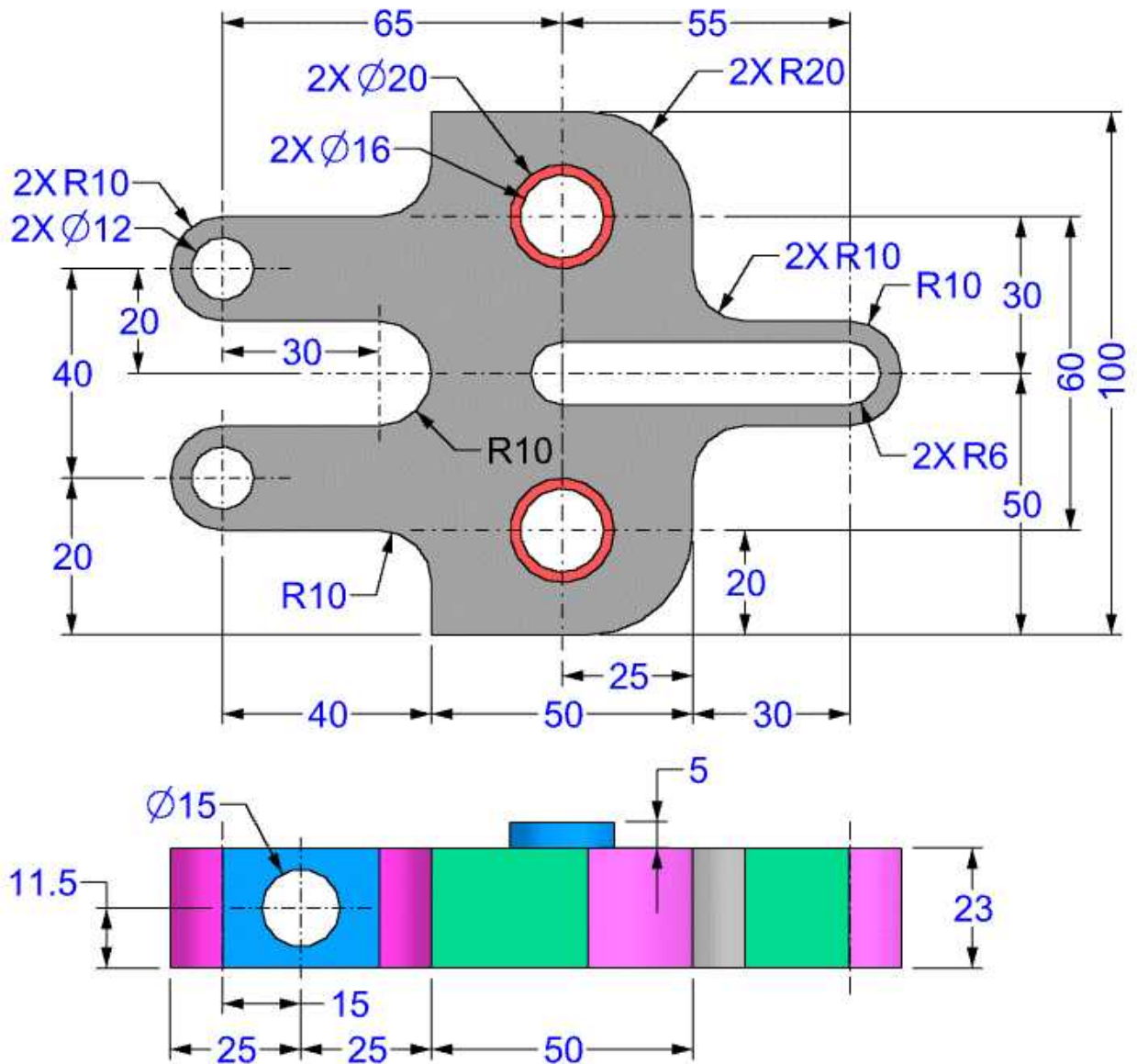
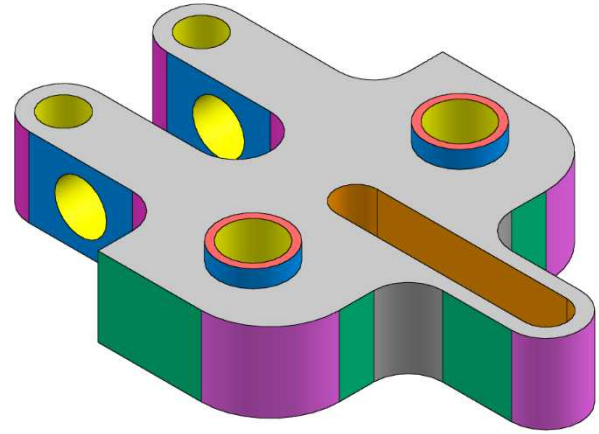
EXERCISE-86

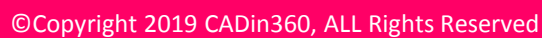
EXERCISE-87

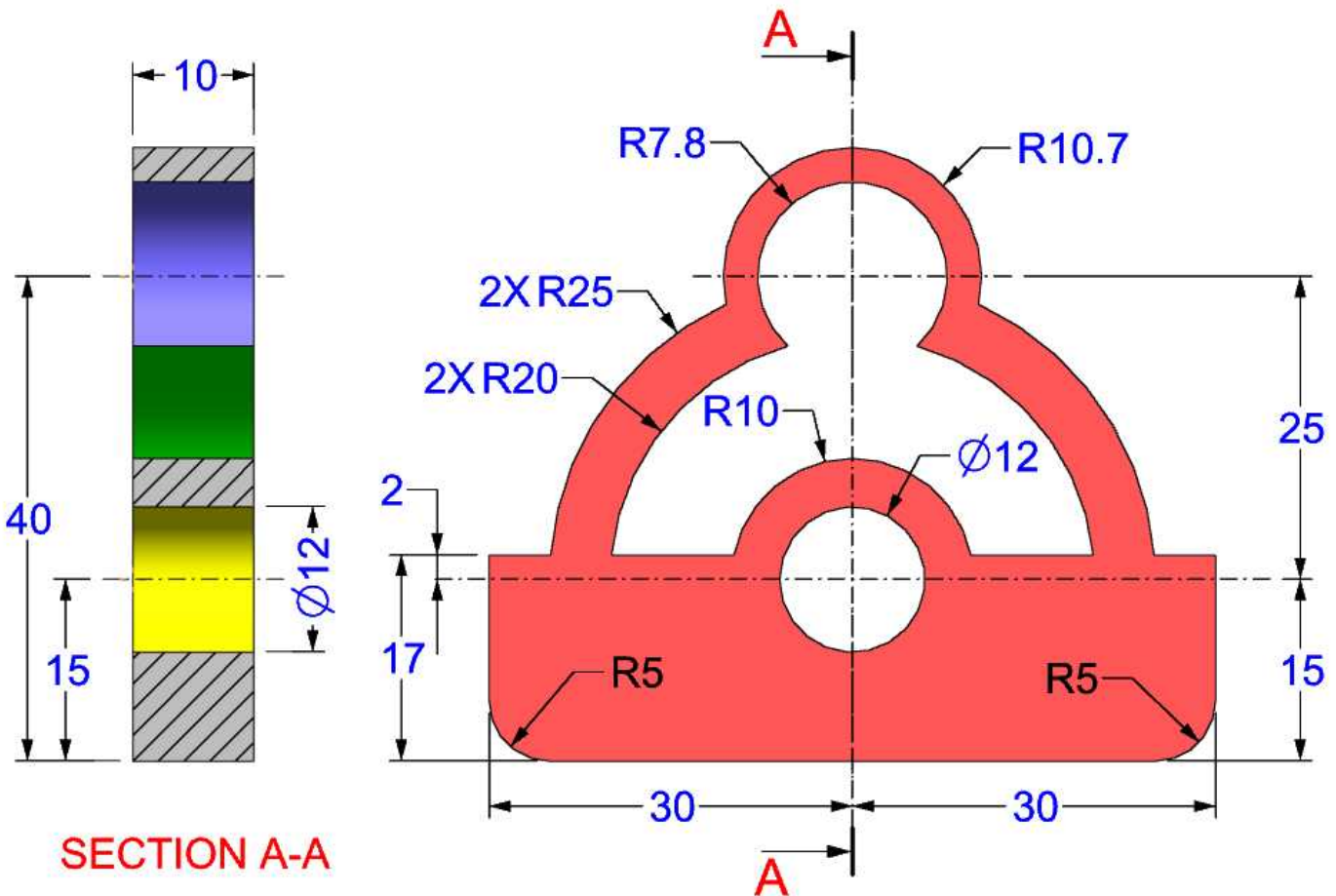
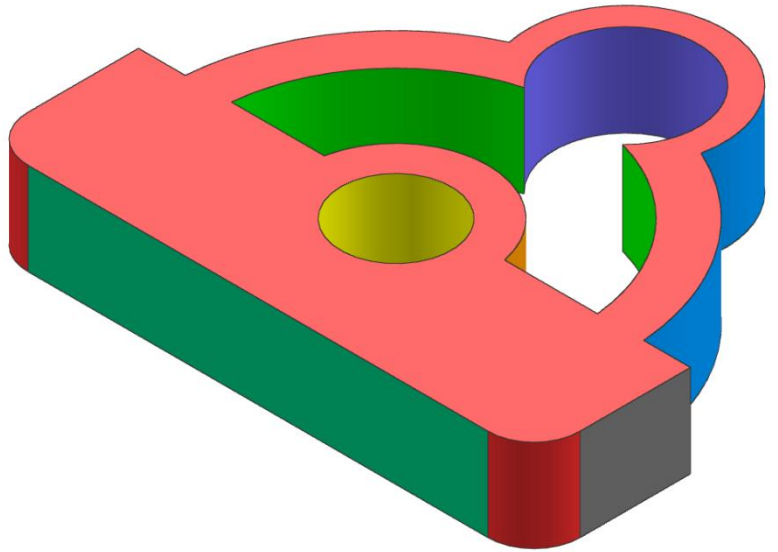
EXERCISE-88

EXERCISE-89

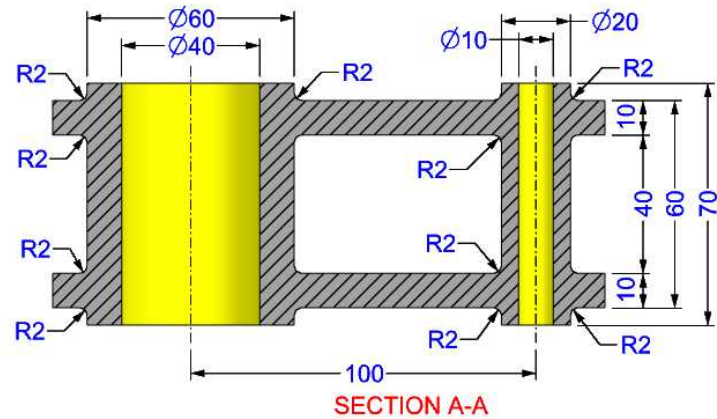
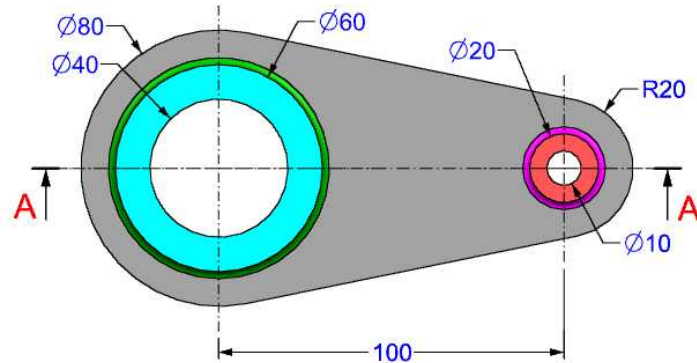
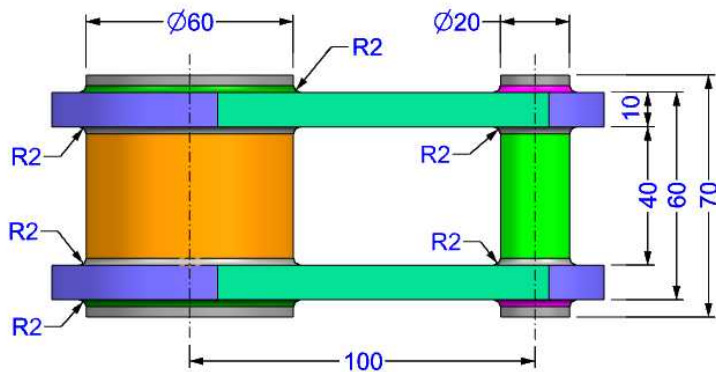
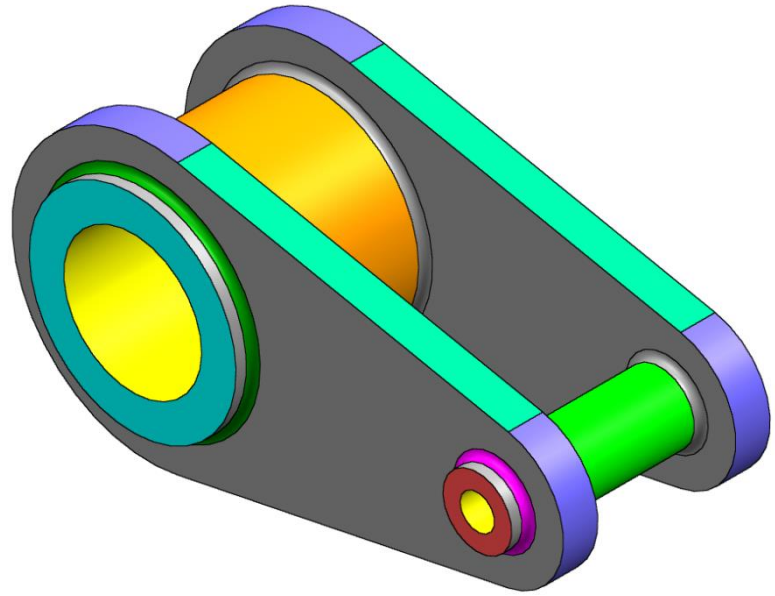


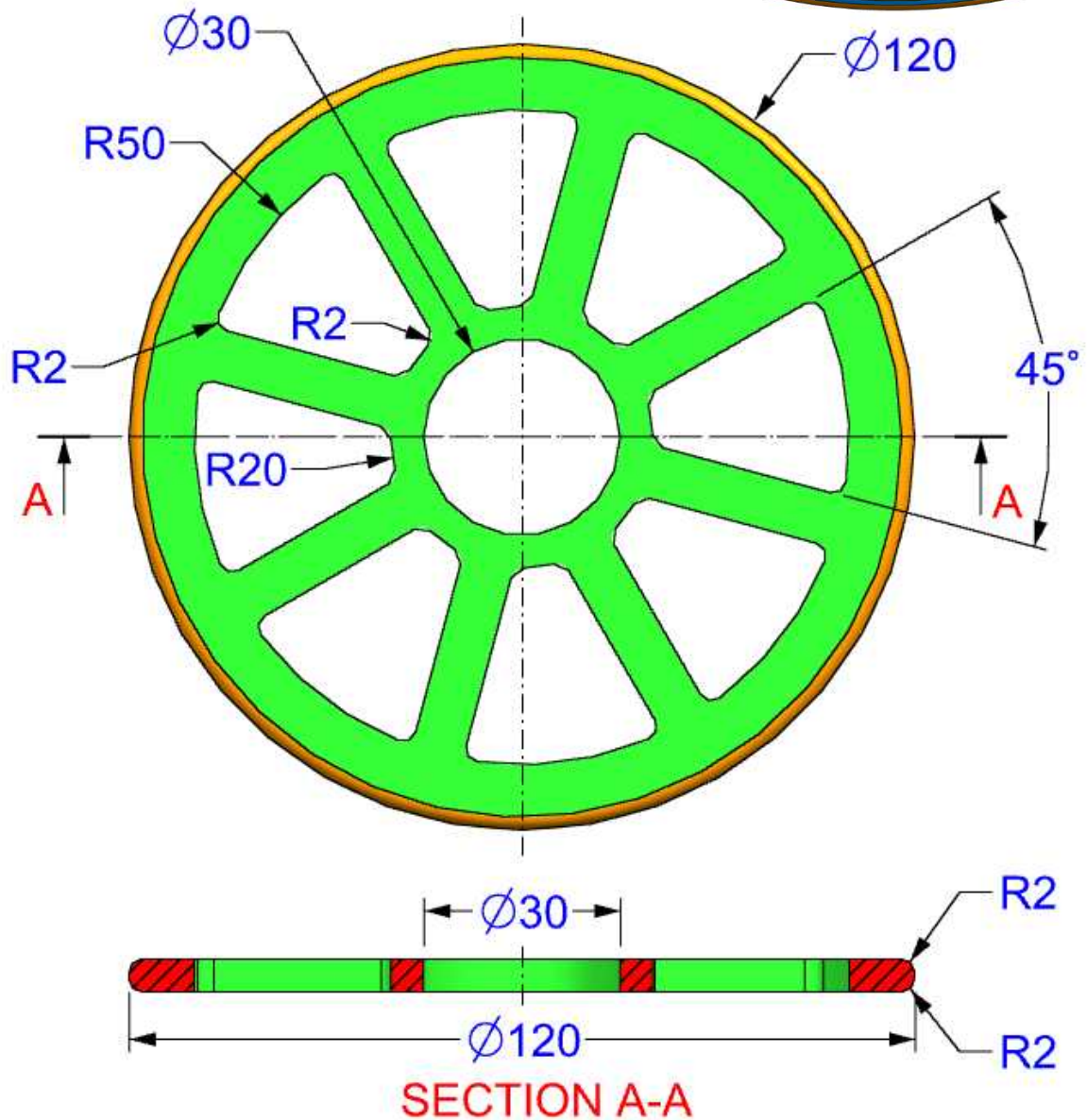
EXERCISE-90

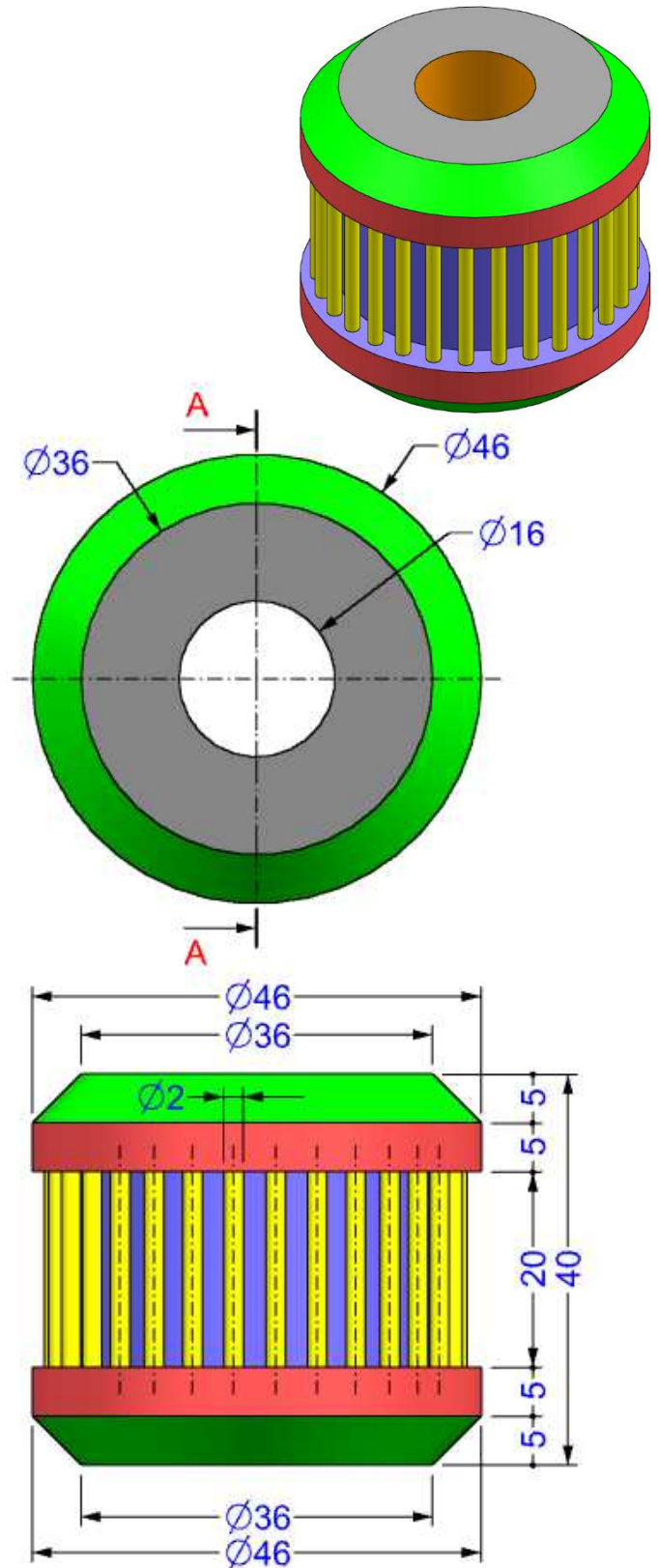
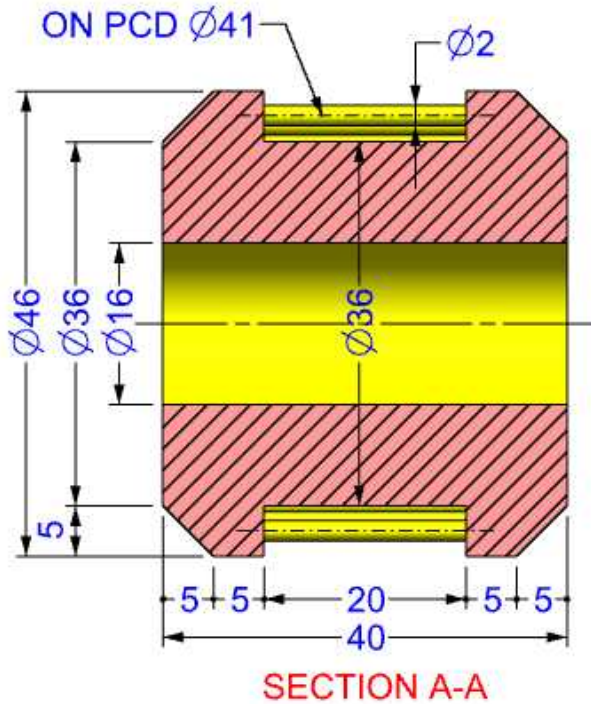


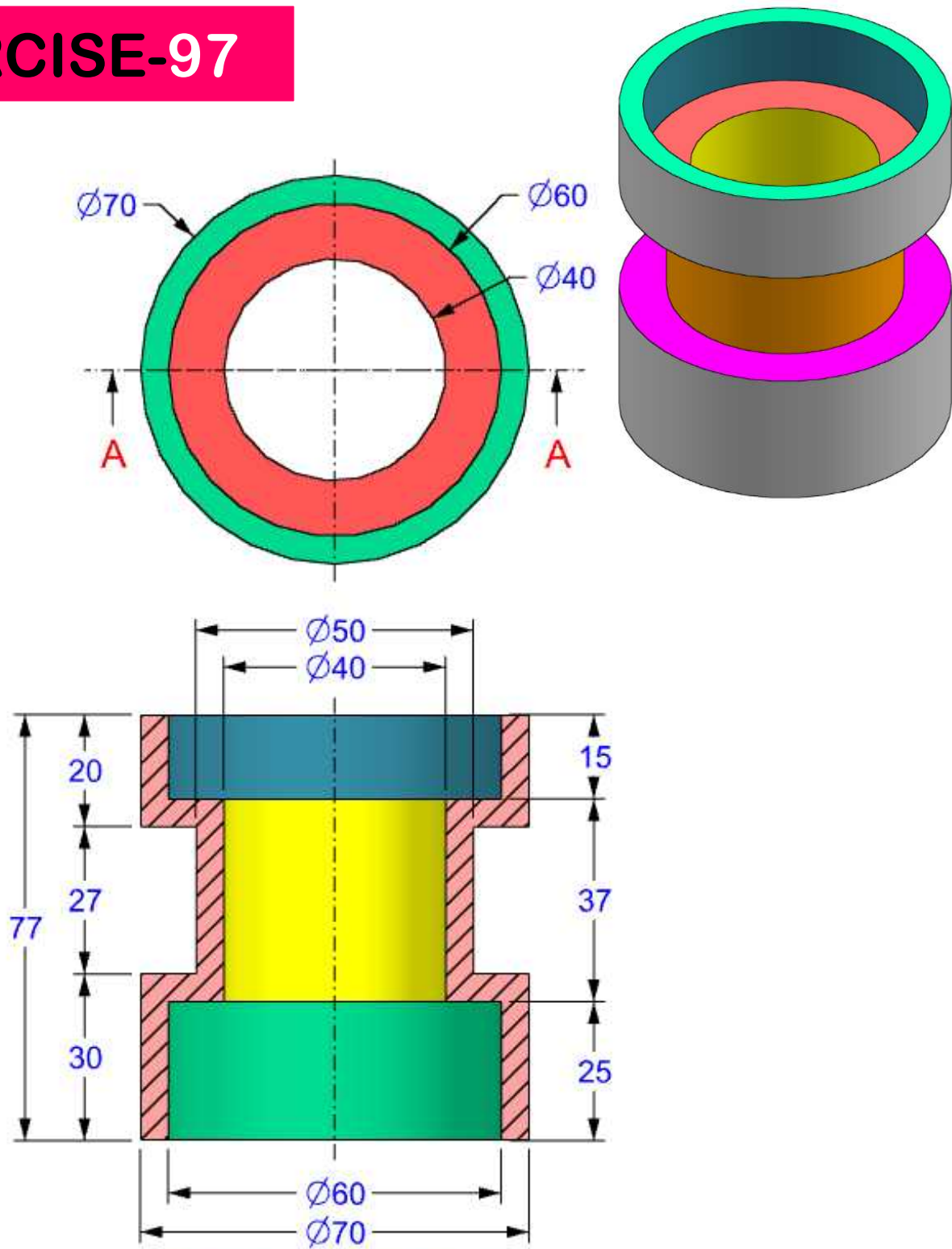
EXERCISE-92

EXERCISE-93

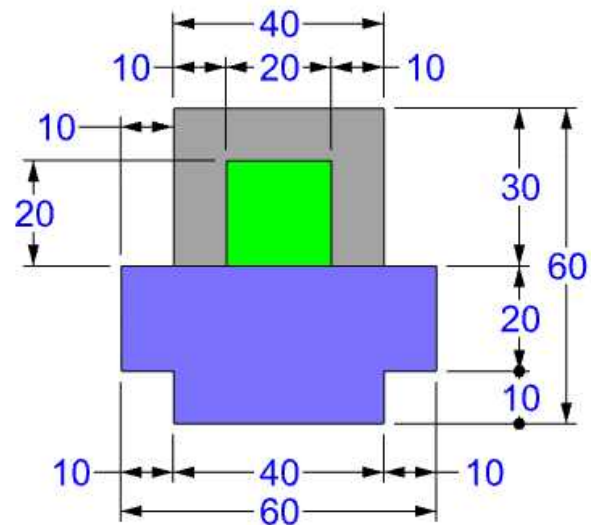
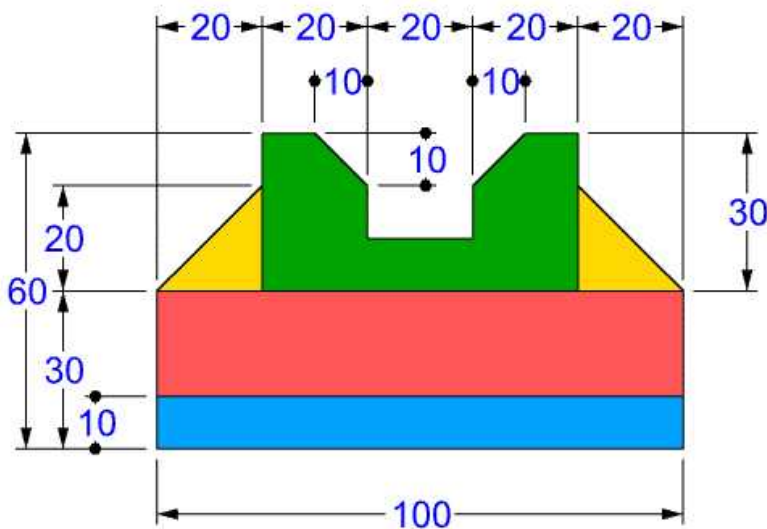
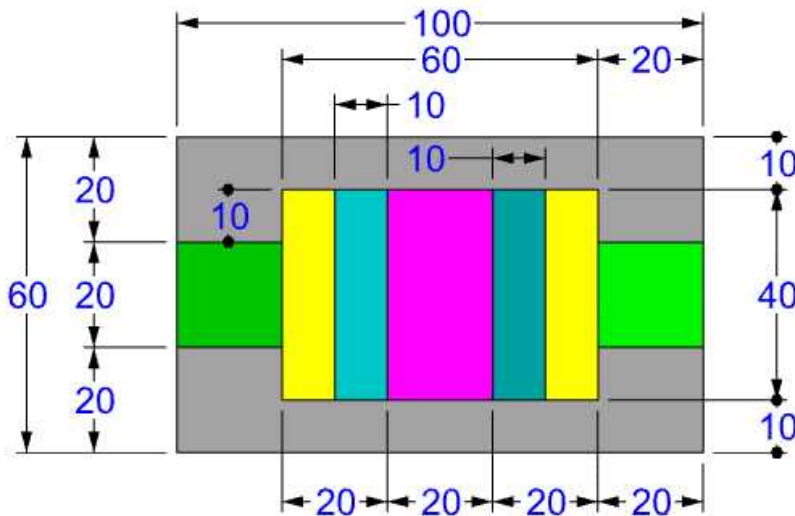
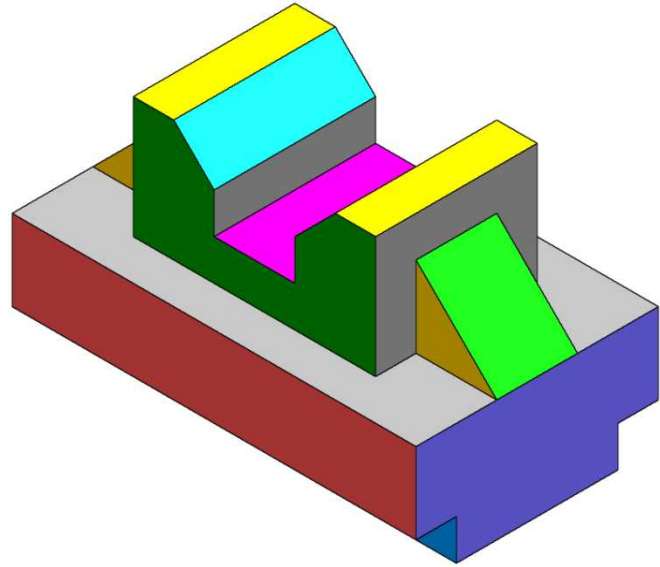


EXERCISE-94

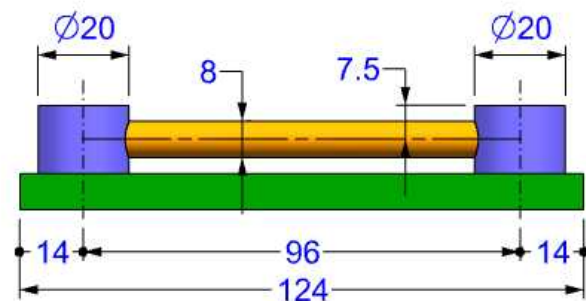
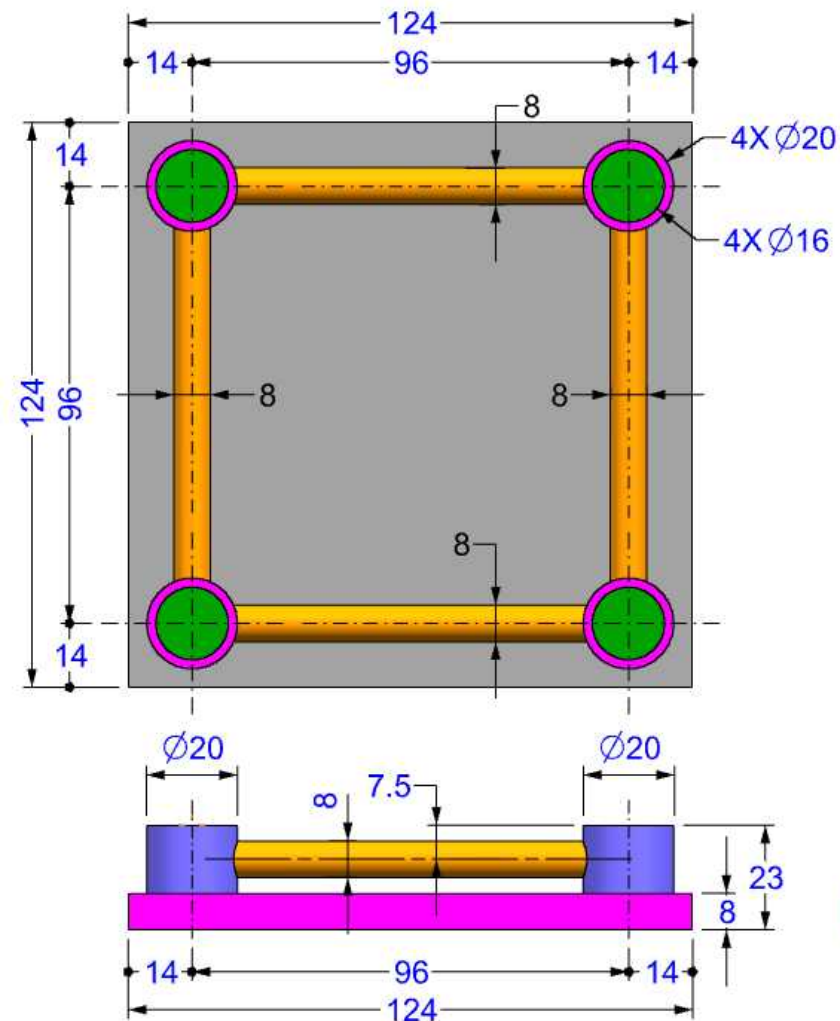
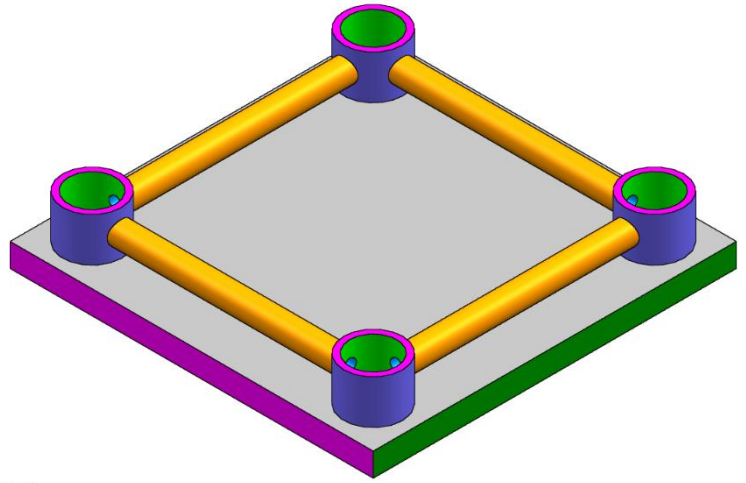
EXERCISE-96

EXERCISE-97

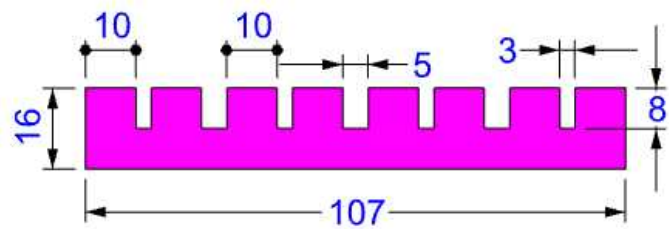
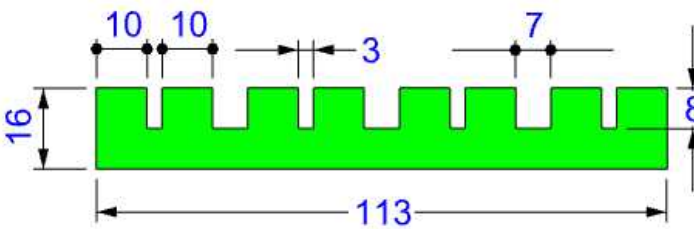
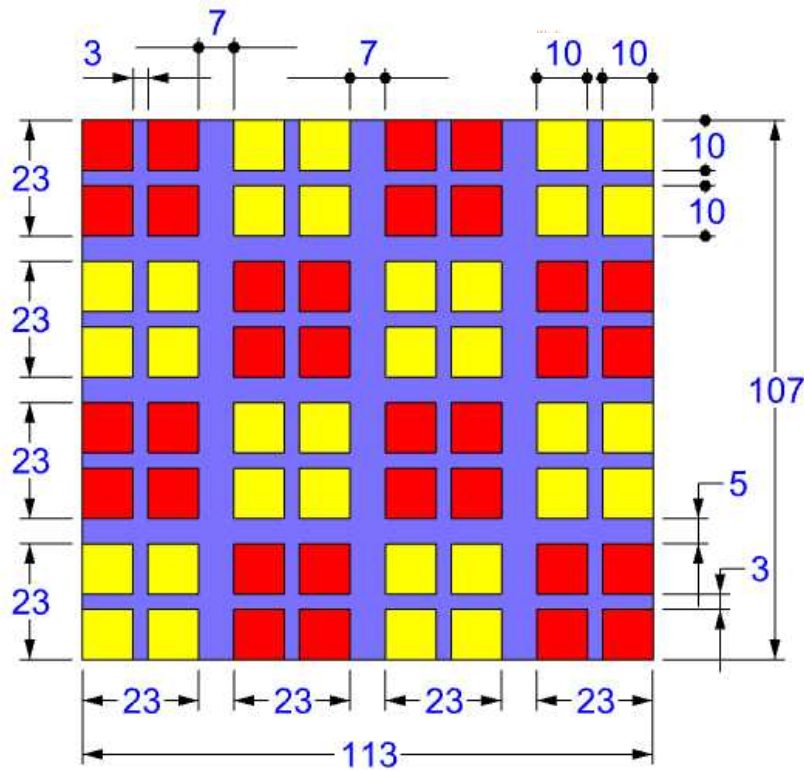
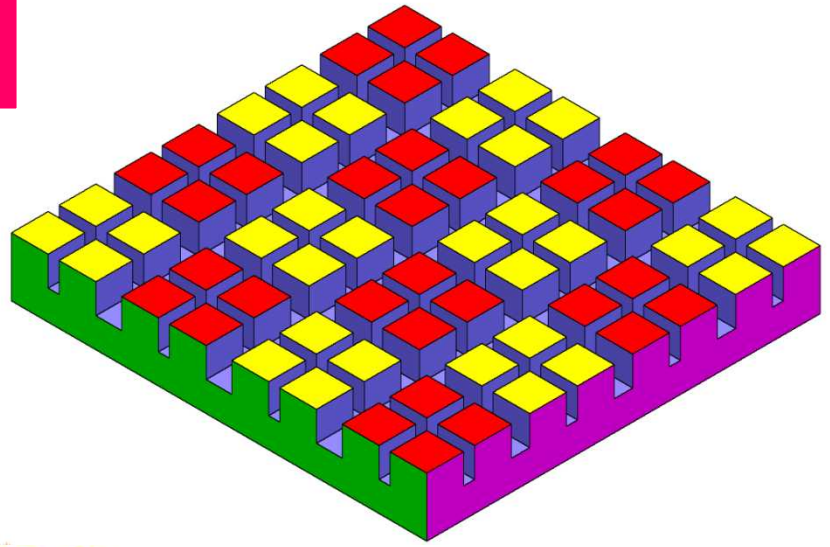
(SCALE 1:1) SECTION A-A

EXERCISE-99

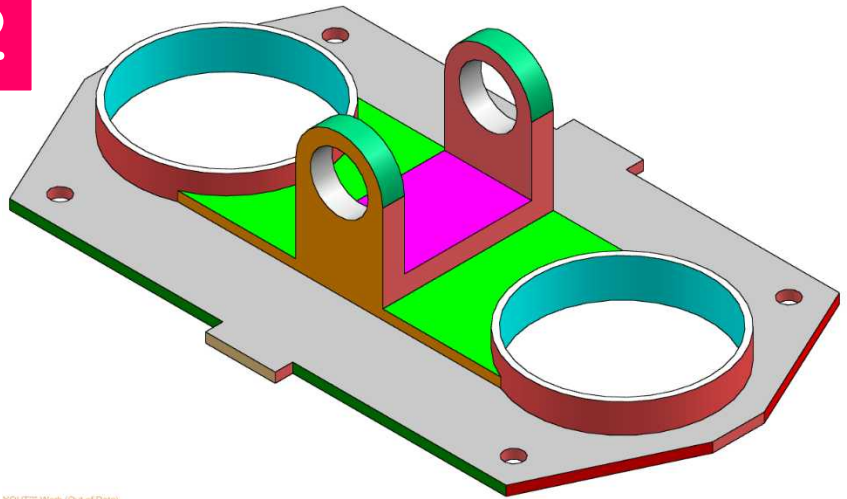
EXERCISE-100



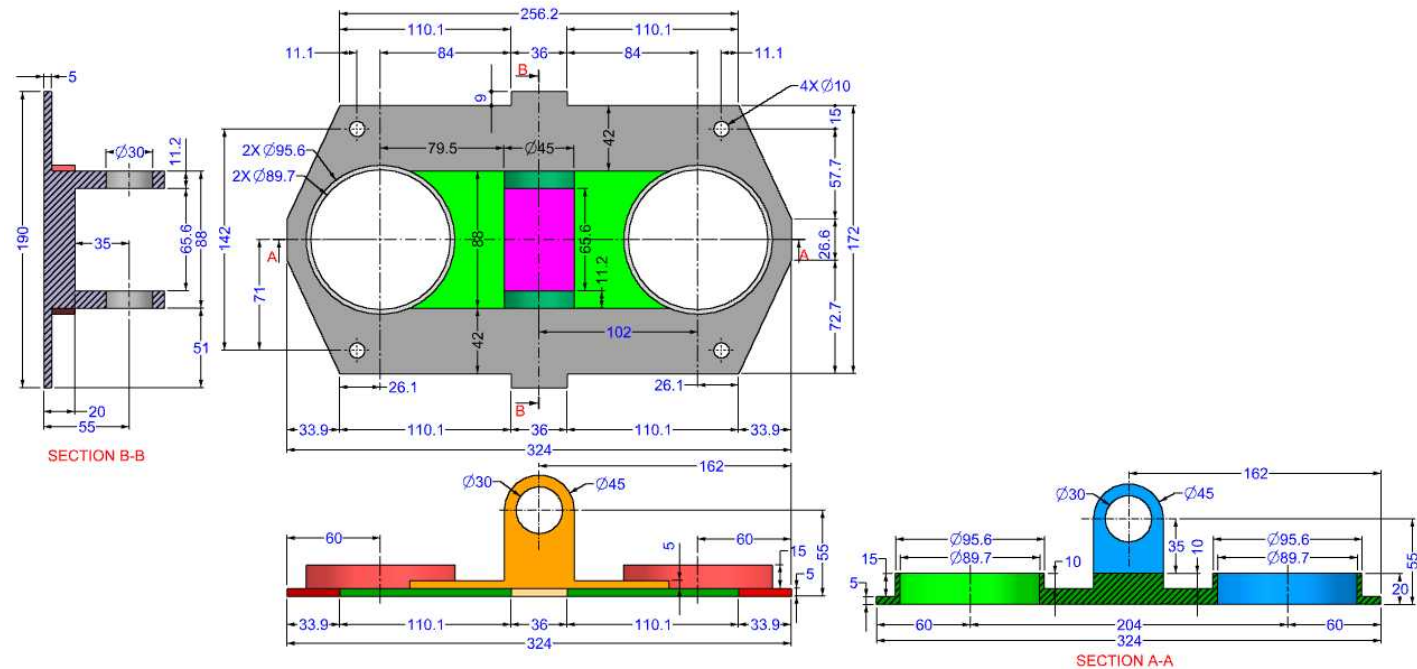
EXERCISE-101



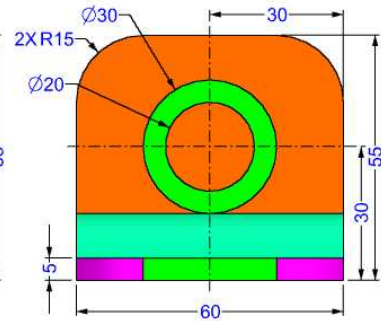
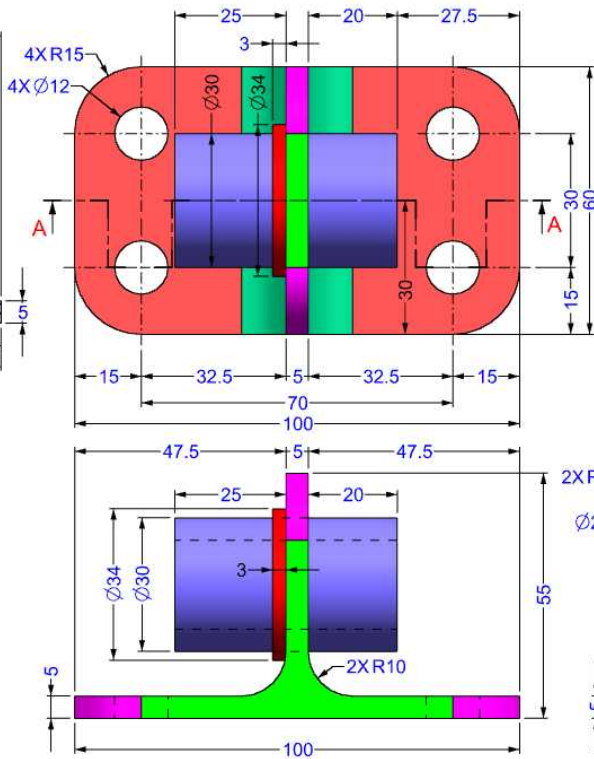
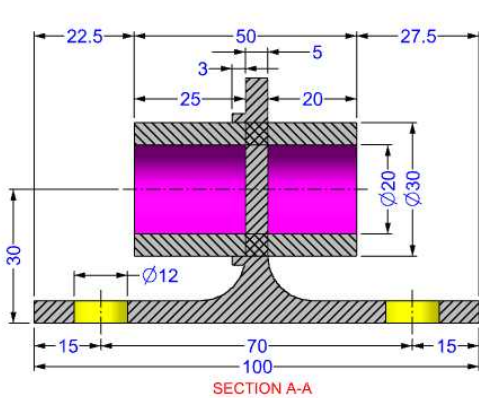
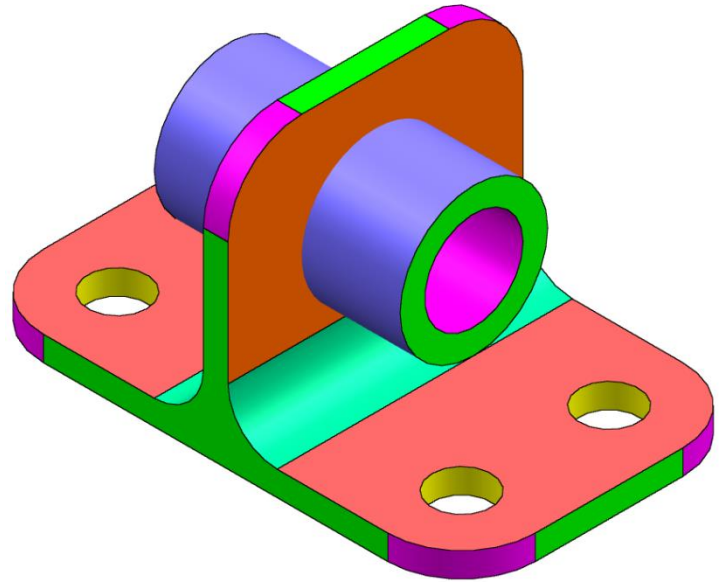
EXERCISE-102

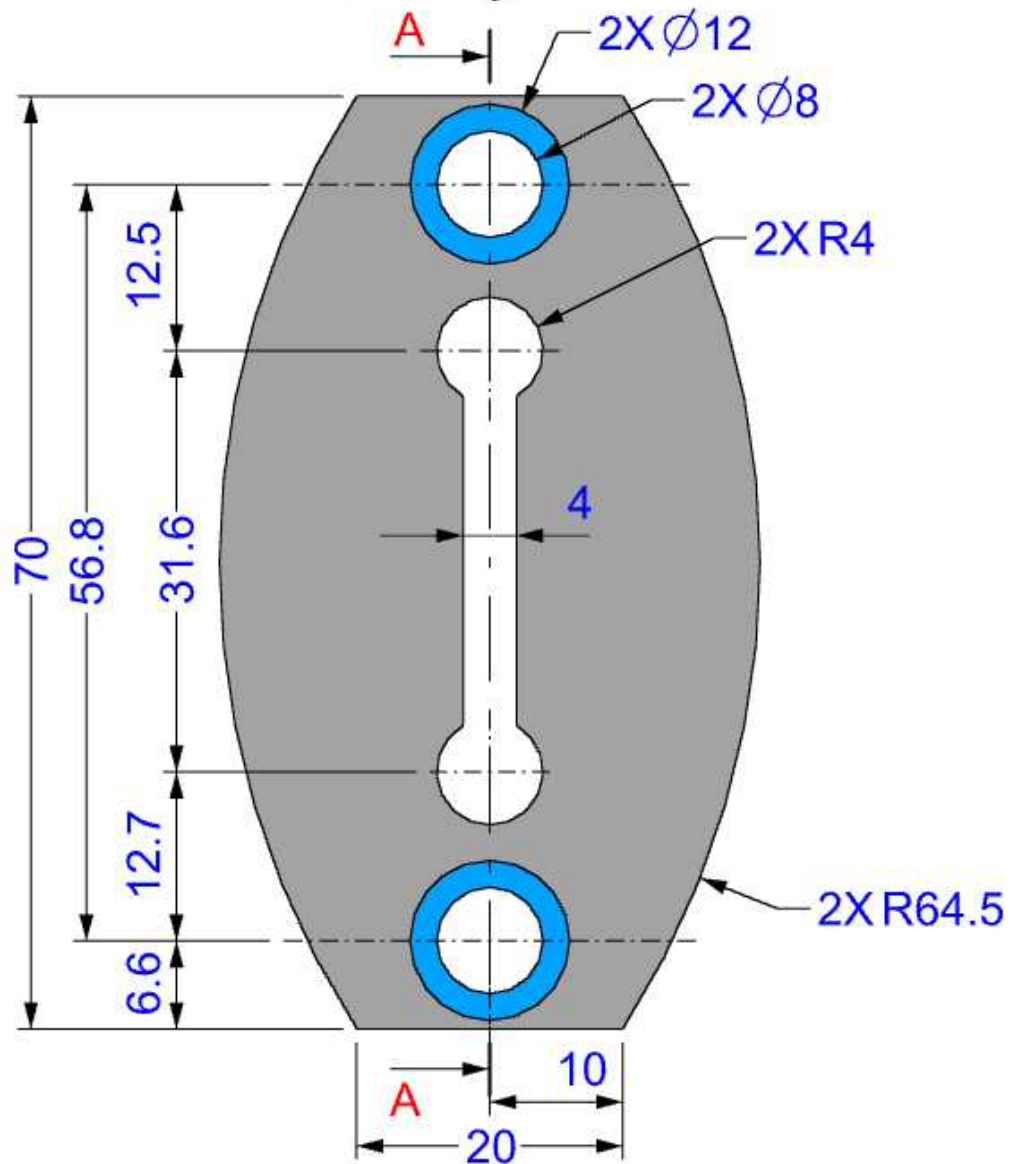
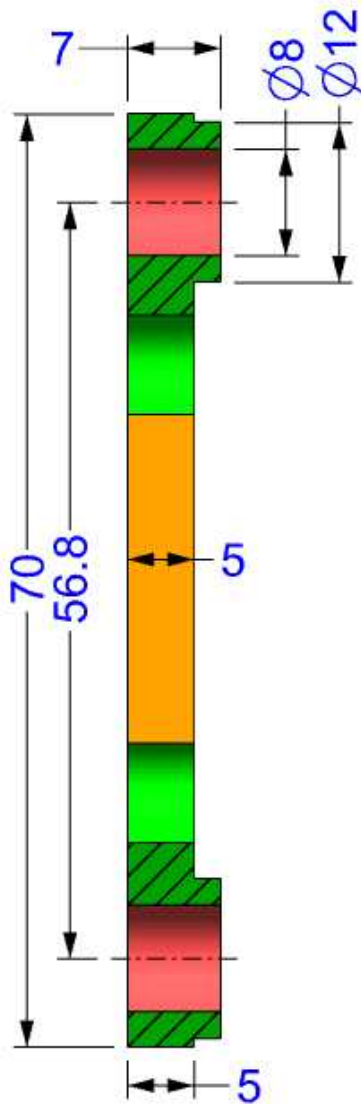
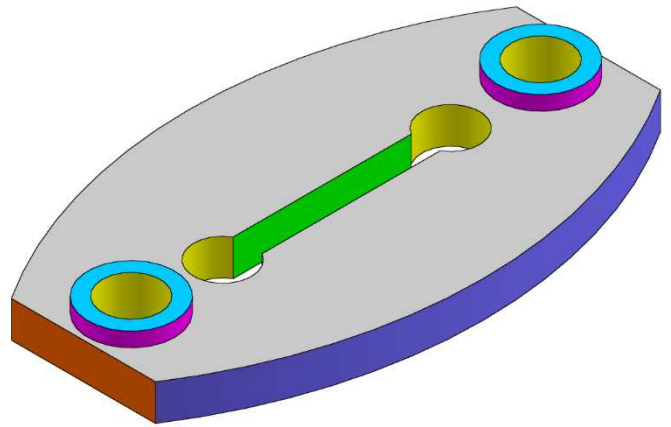


3D Model of the Part

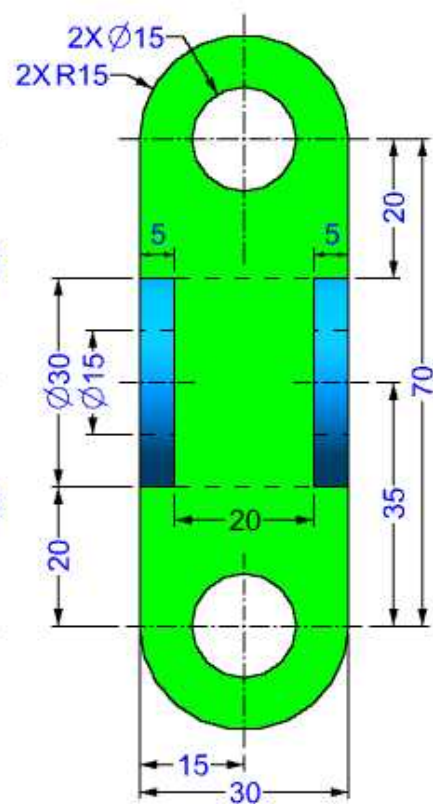
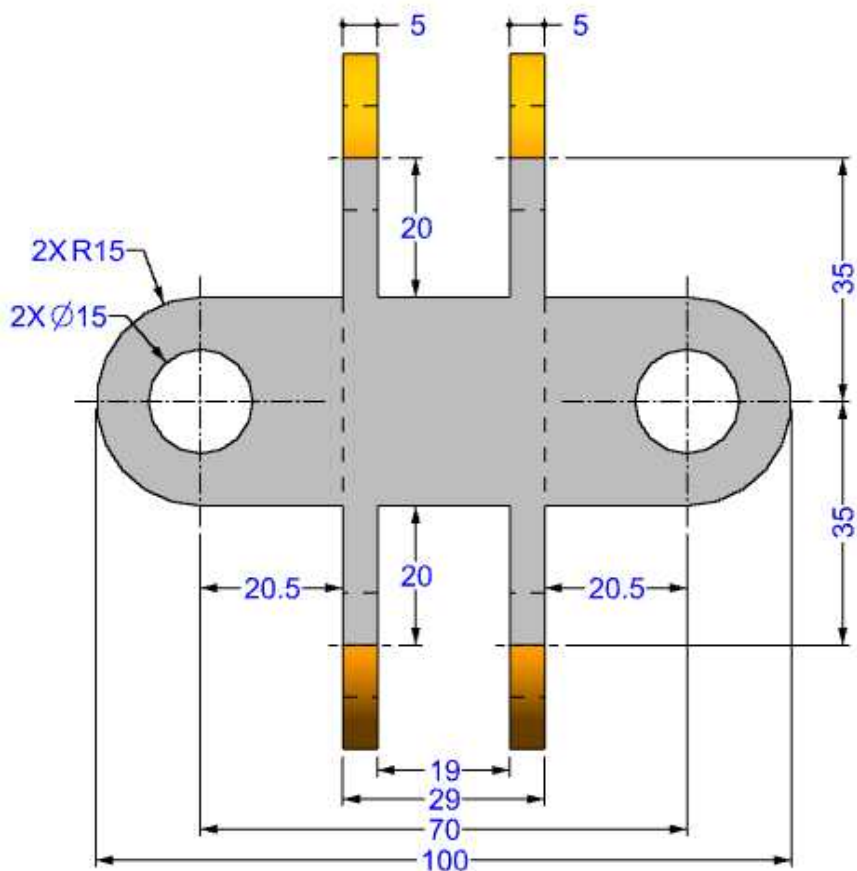
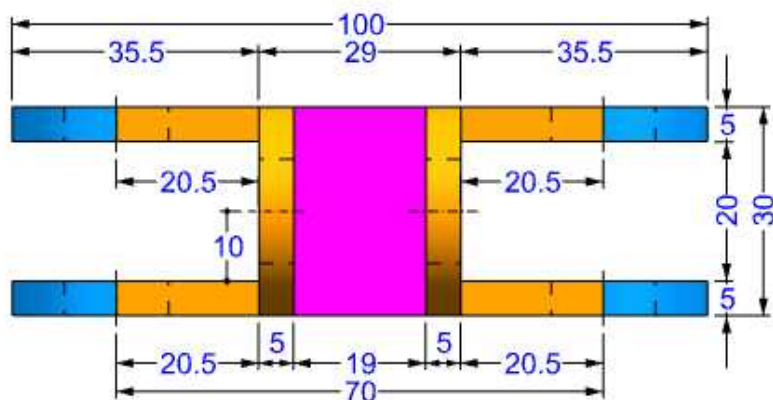
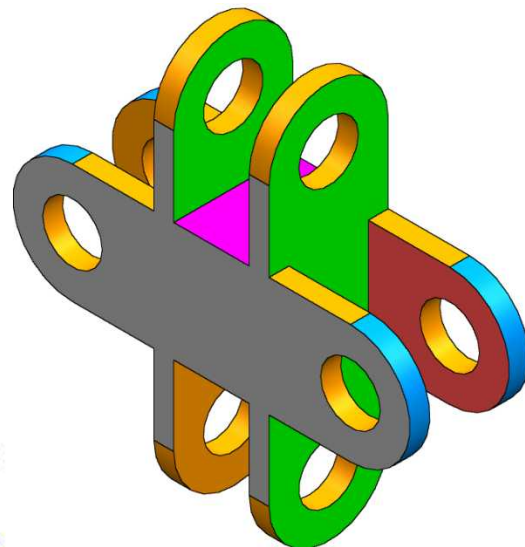


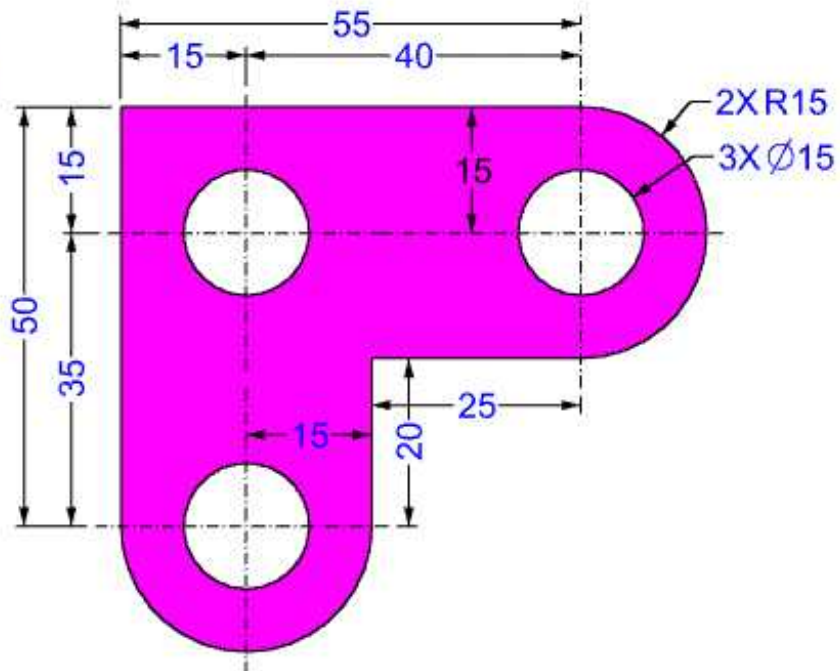
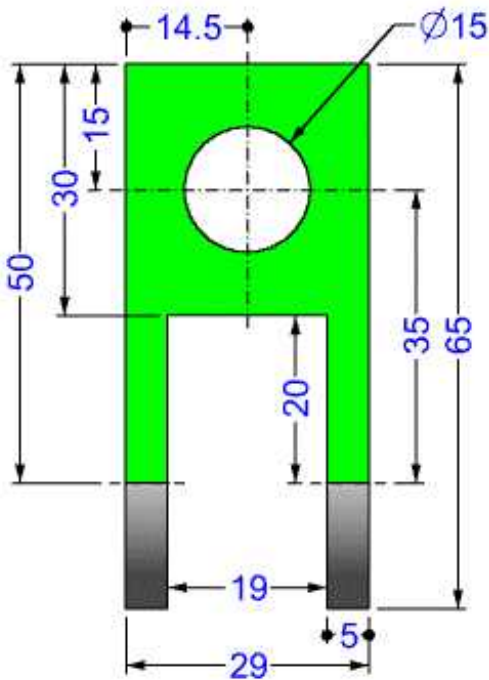
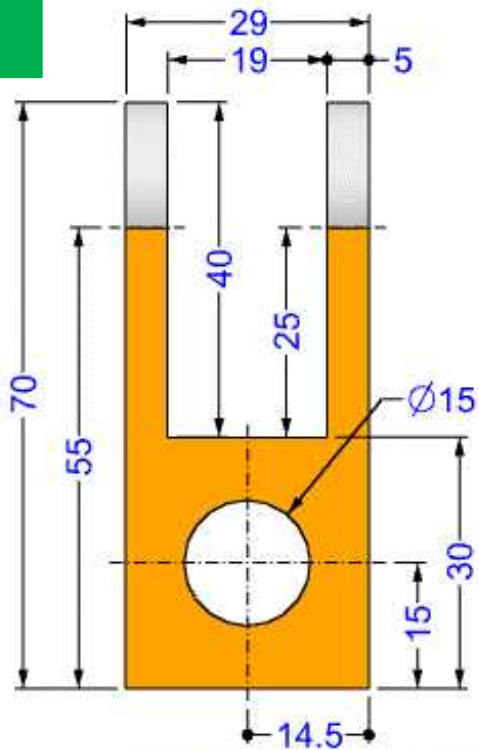
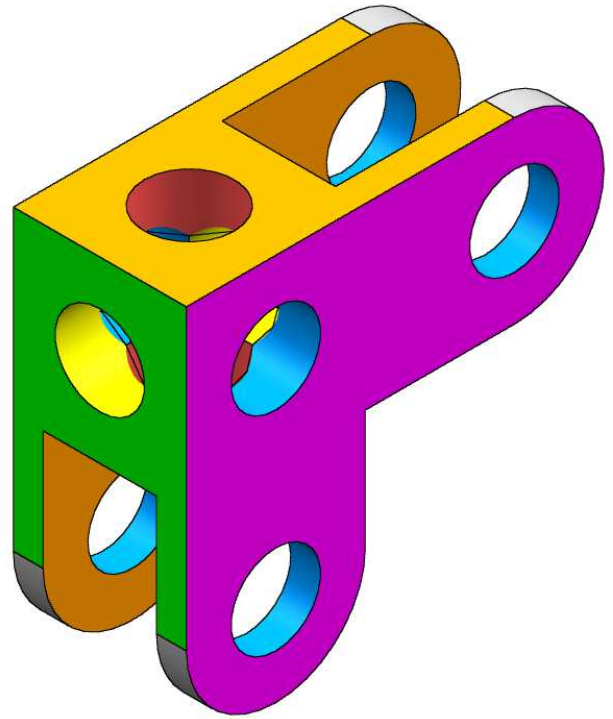
EXERCISE-104



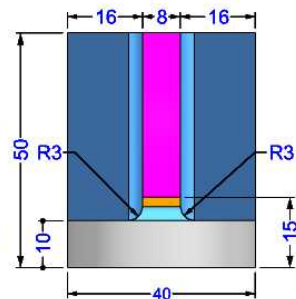
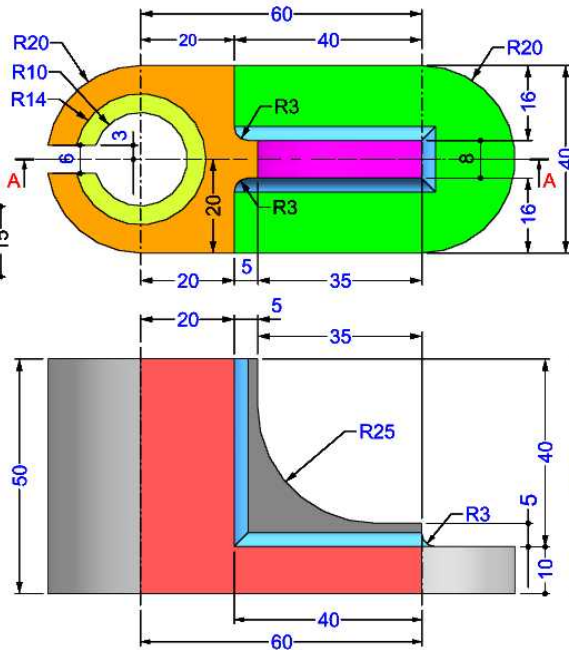
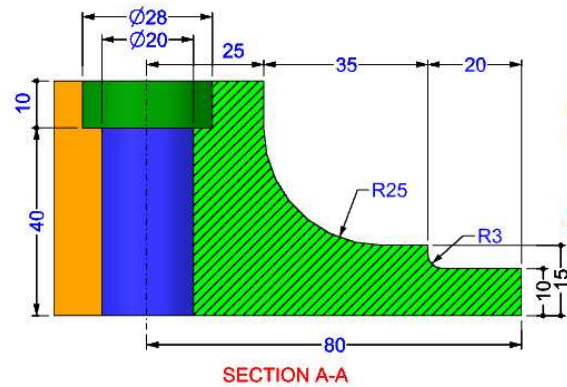
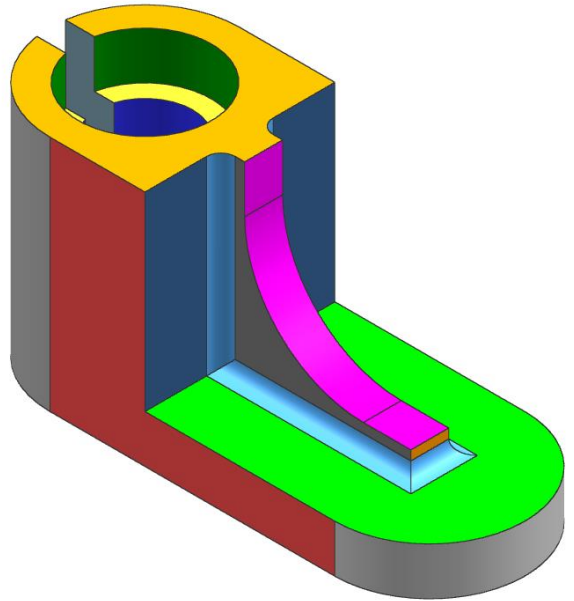
EXERCISE-105

EXERCISE-107

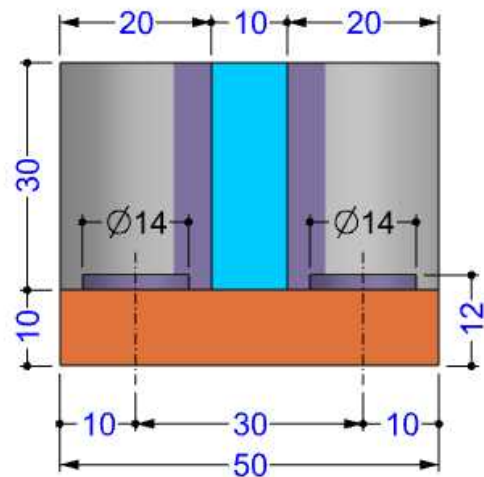
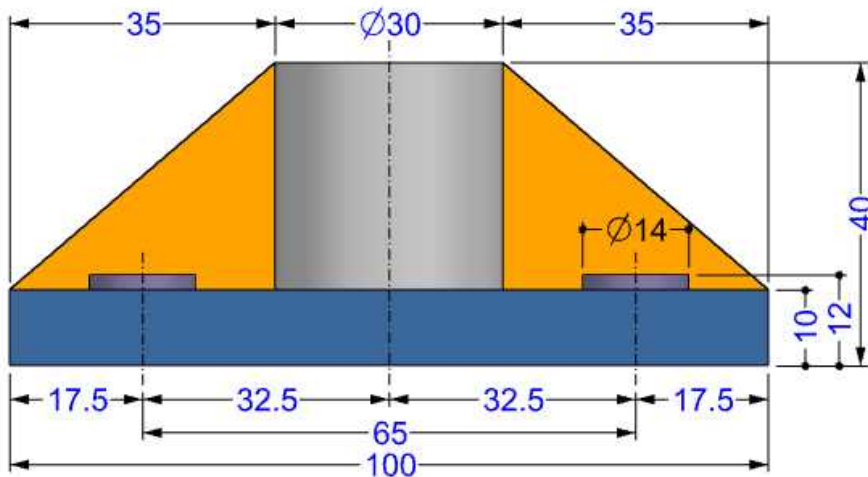
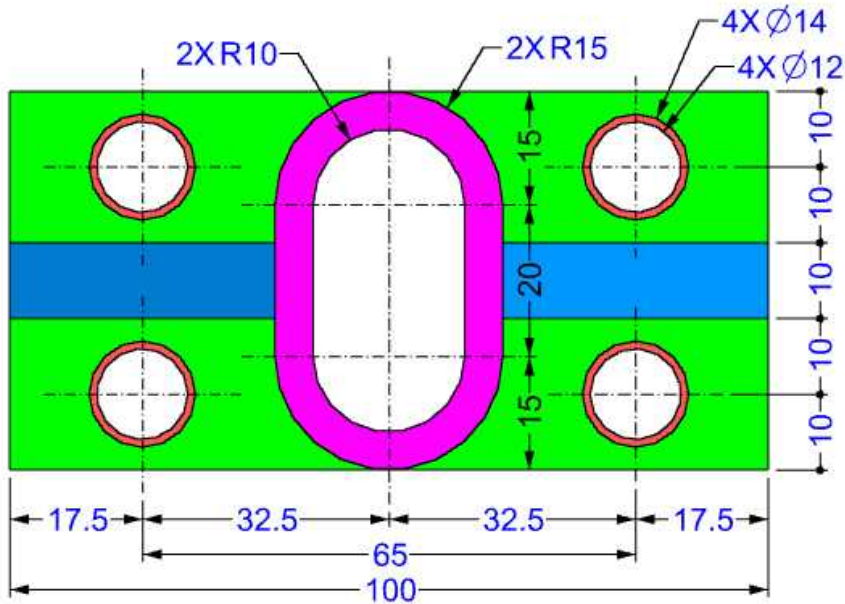
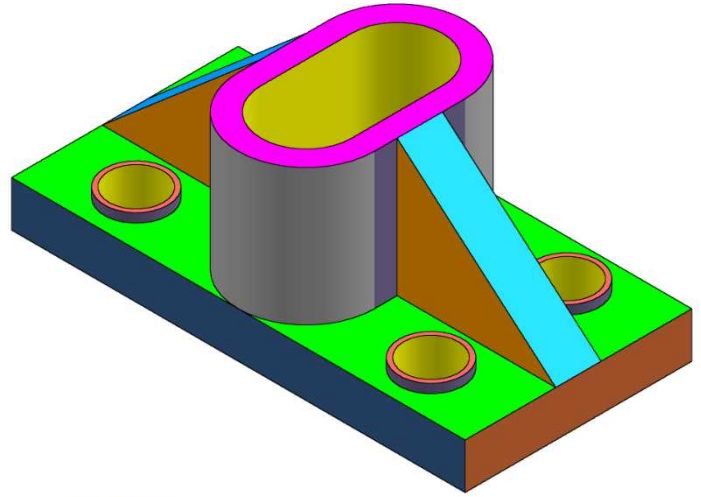


EXERCISE-108

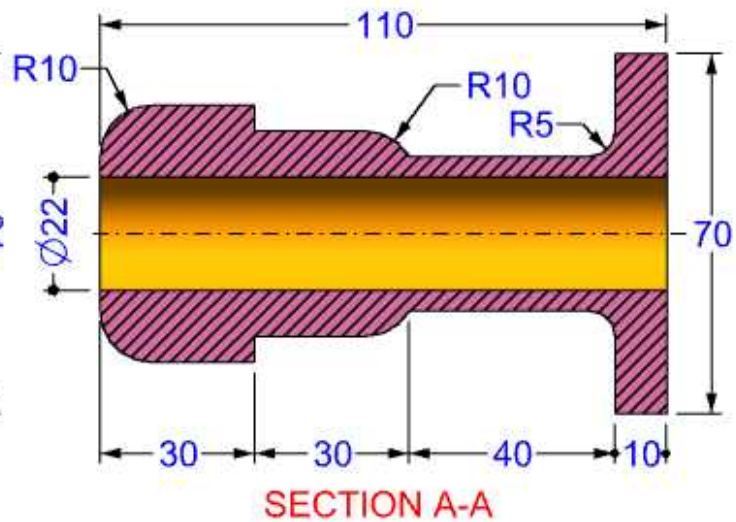
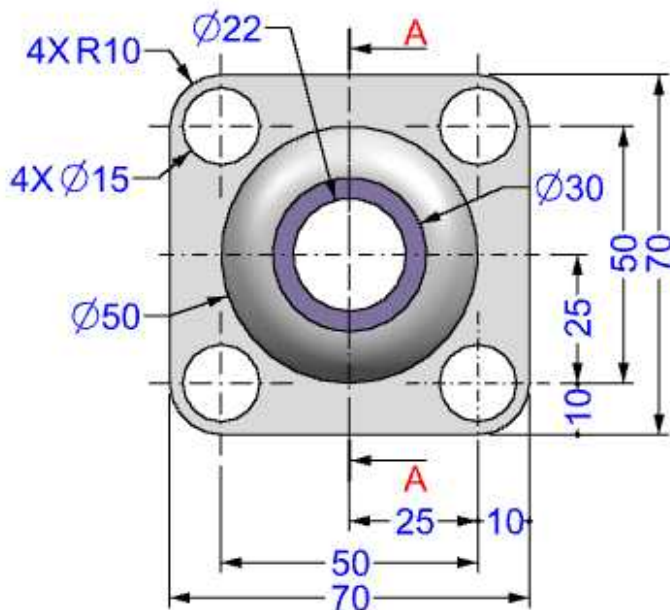
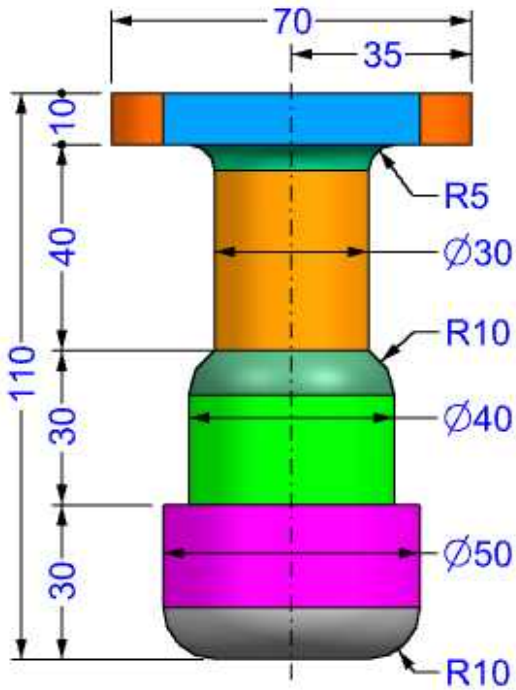
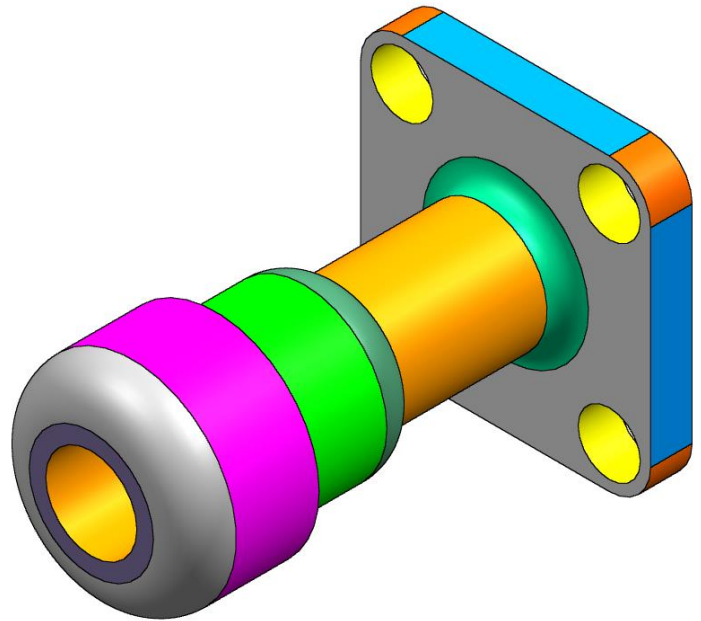
EXERCISE-109



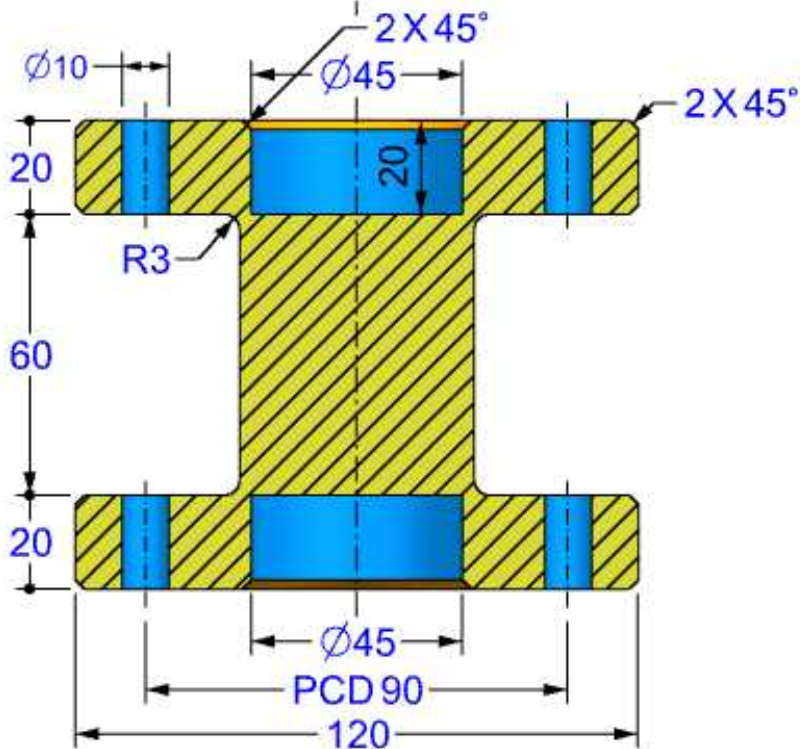
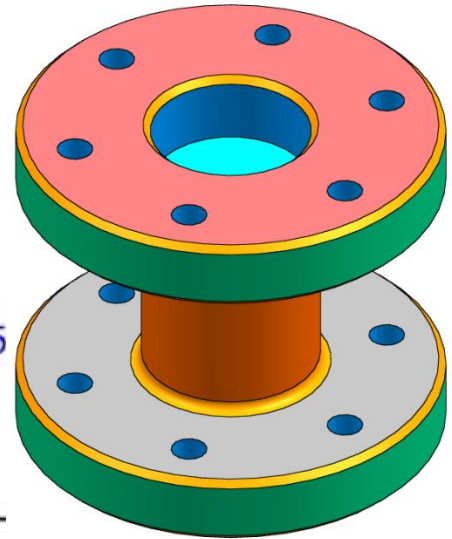
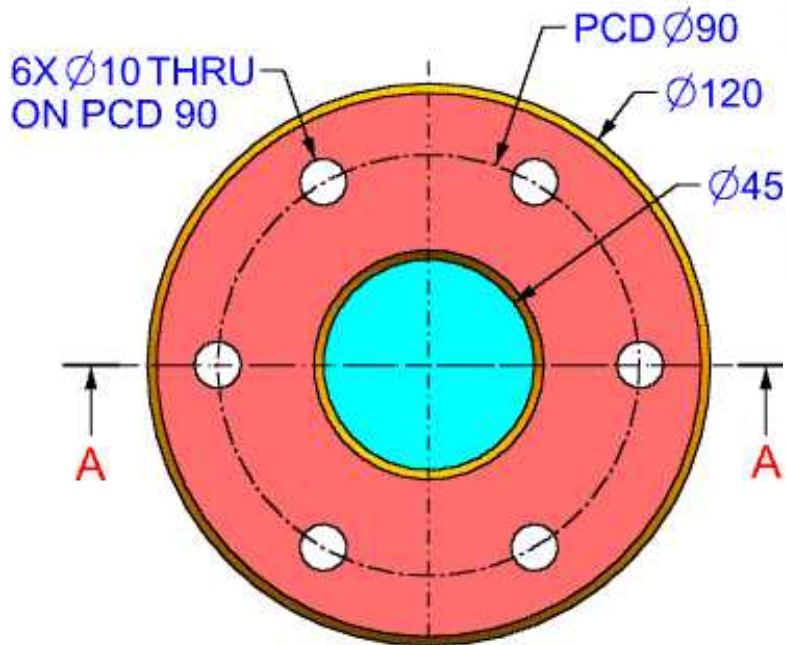
EXERCISE-110



EXERCISE-111

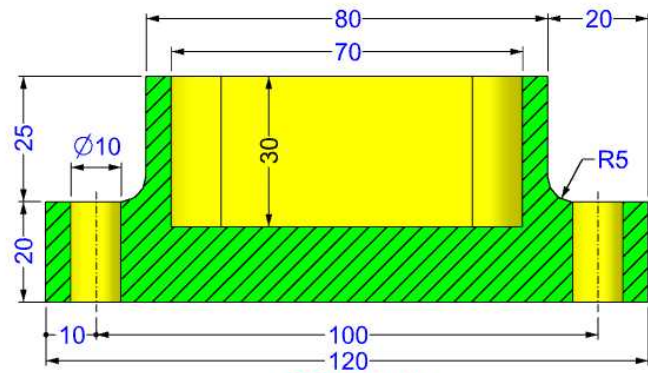
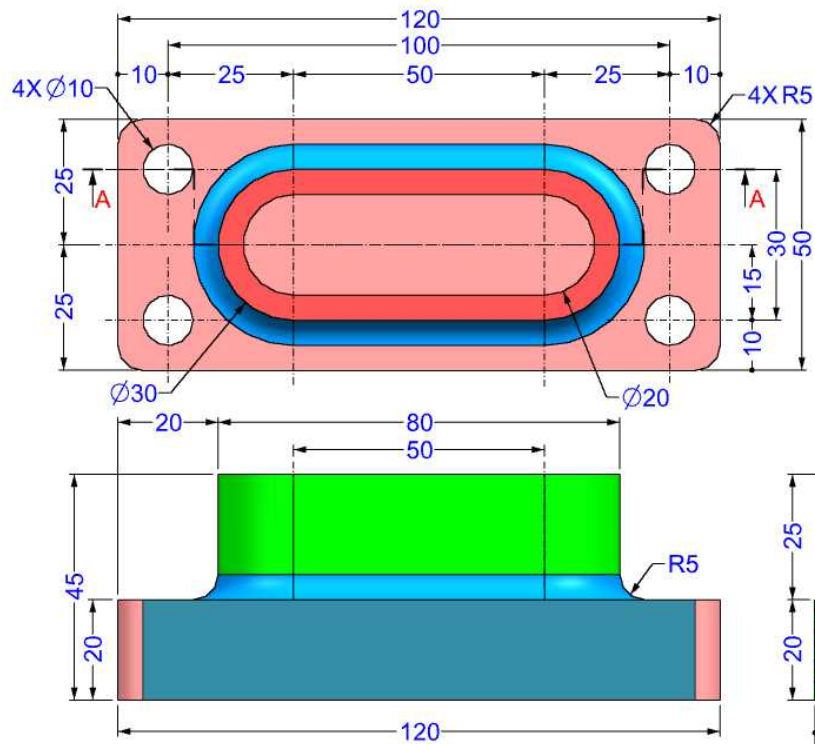
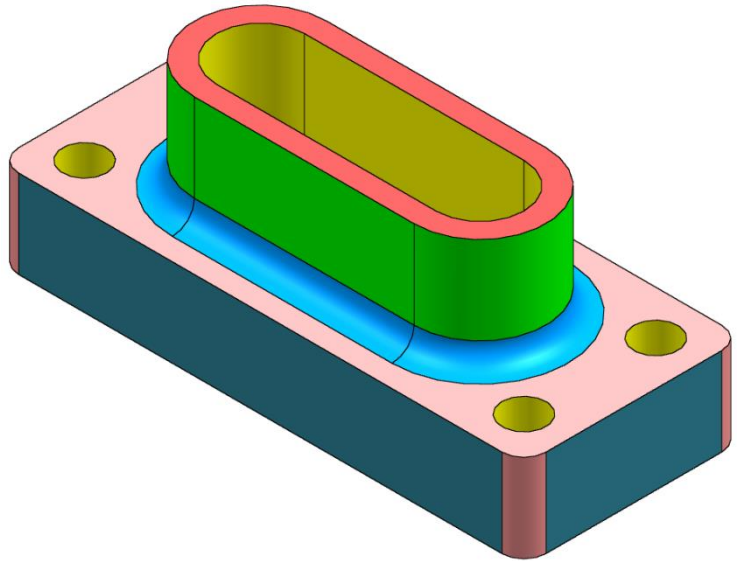


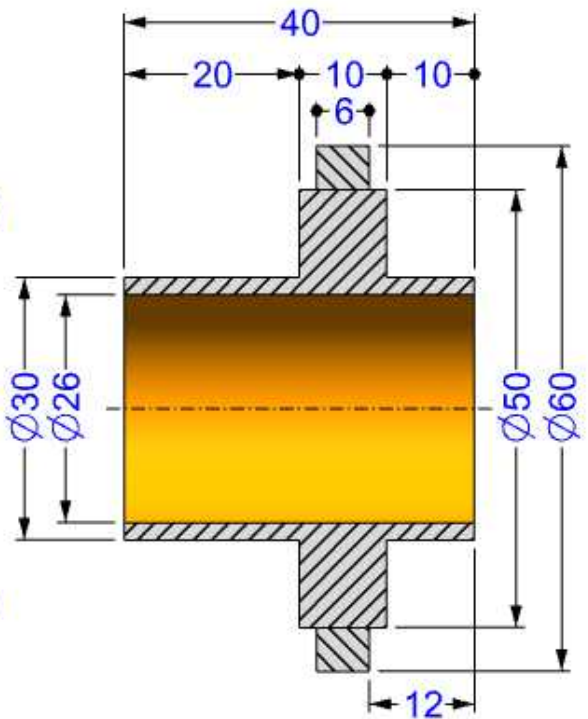
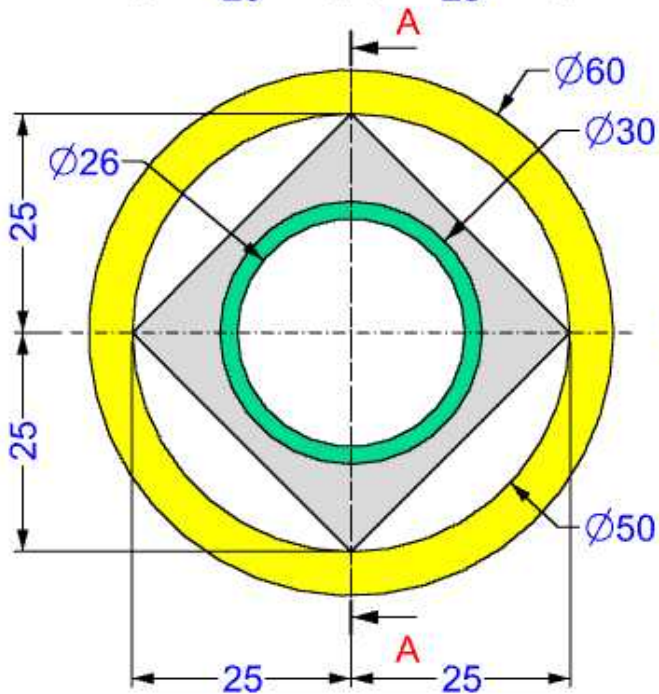
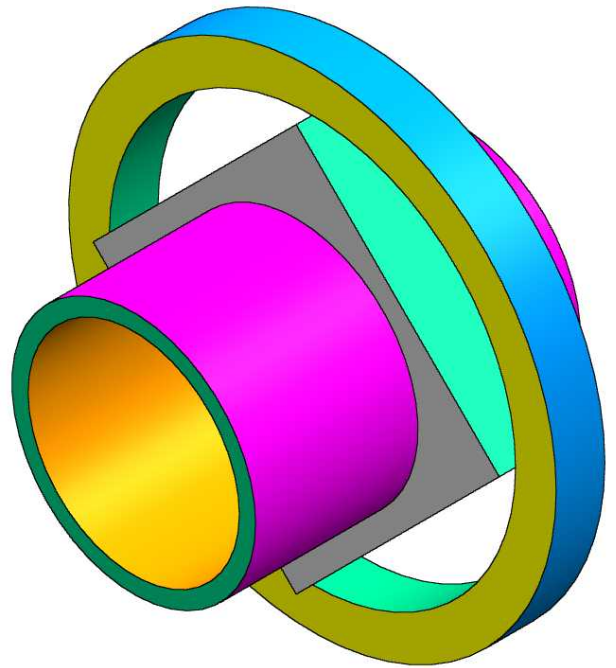
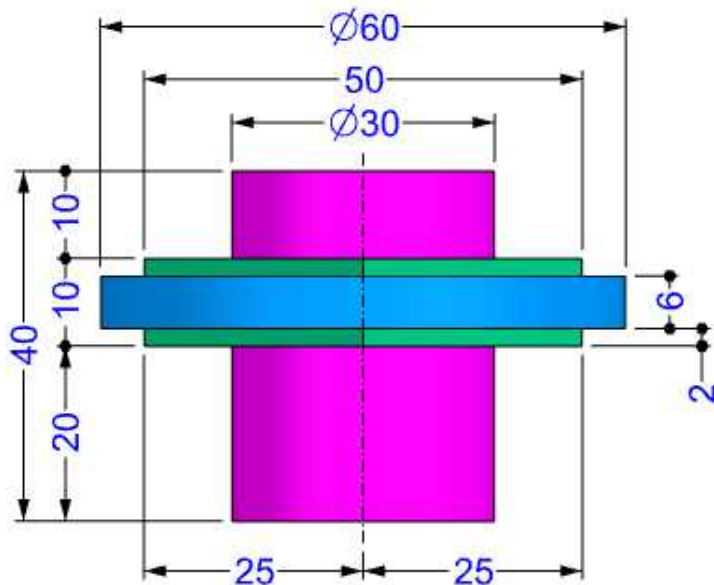
EXERCISE-112



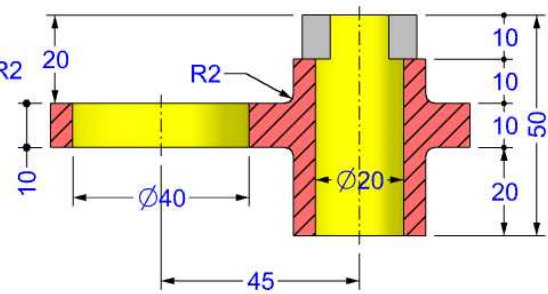
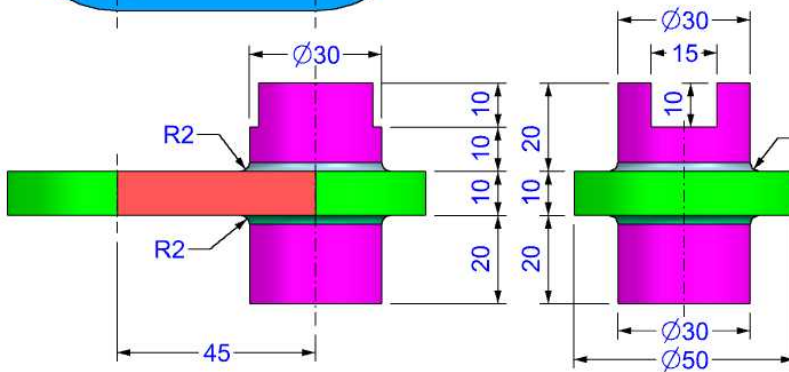
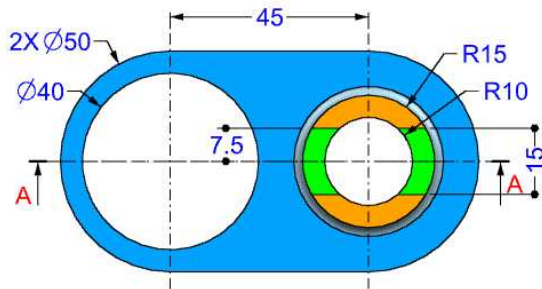
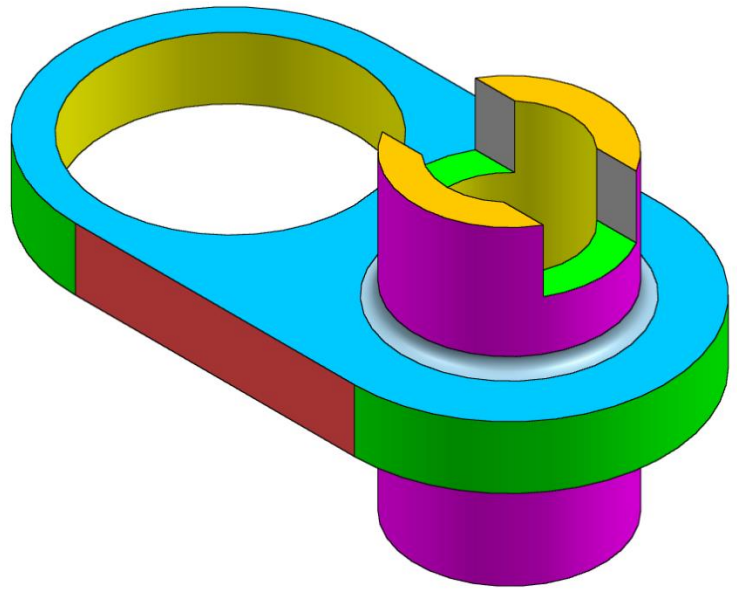
SECTION A-A

EXERCISE-114



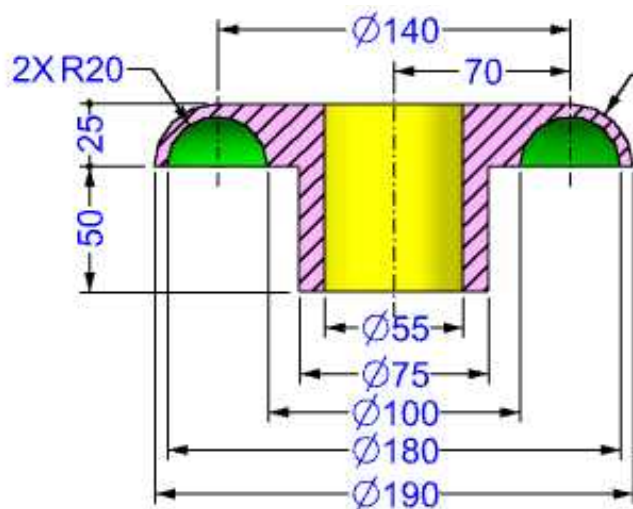
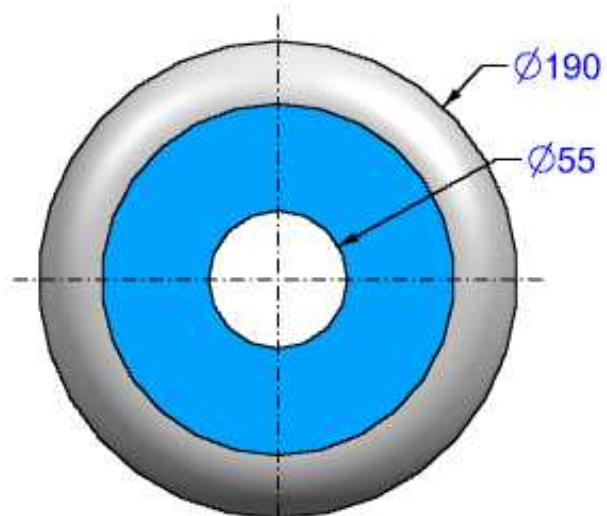
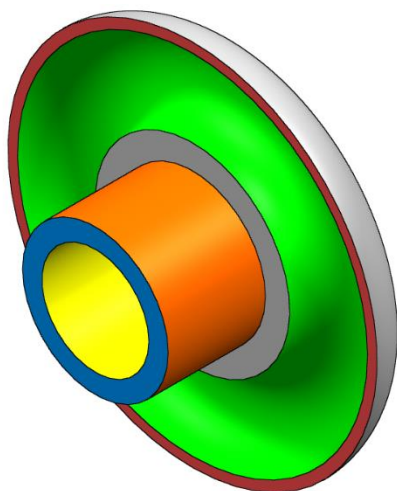
EXERCISE-115**SECTION A-A**

EXERCISE-116

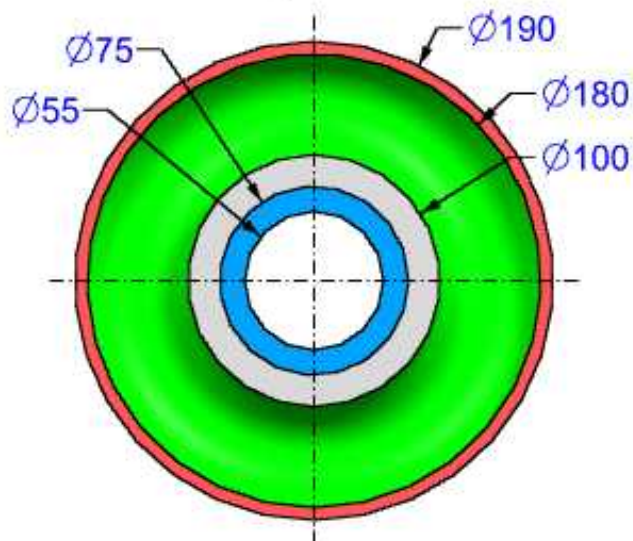
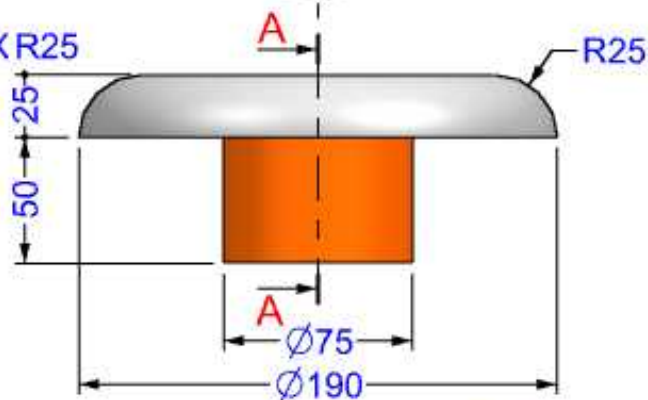


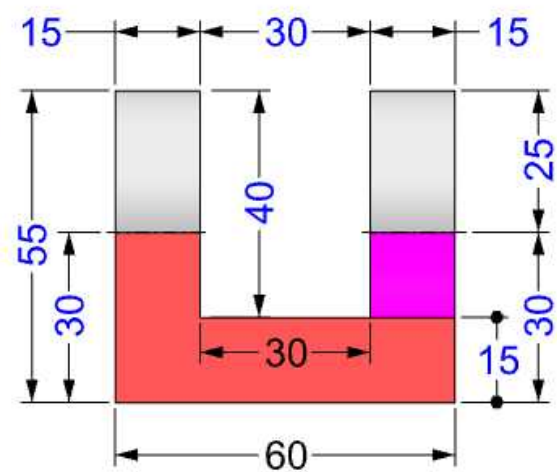
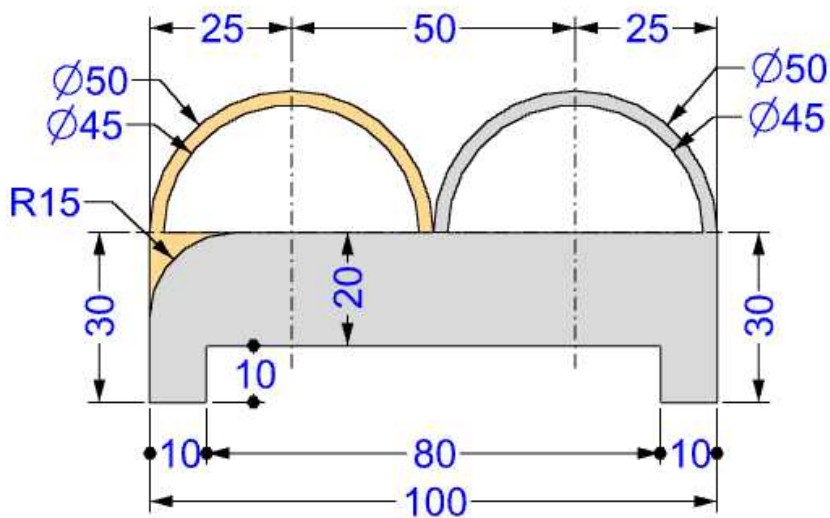
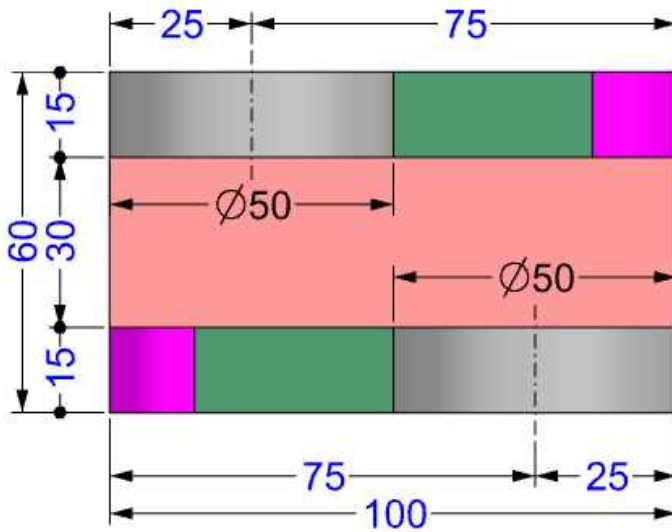
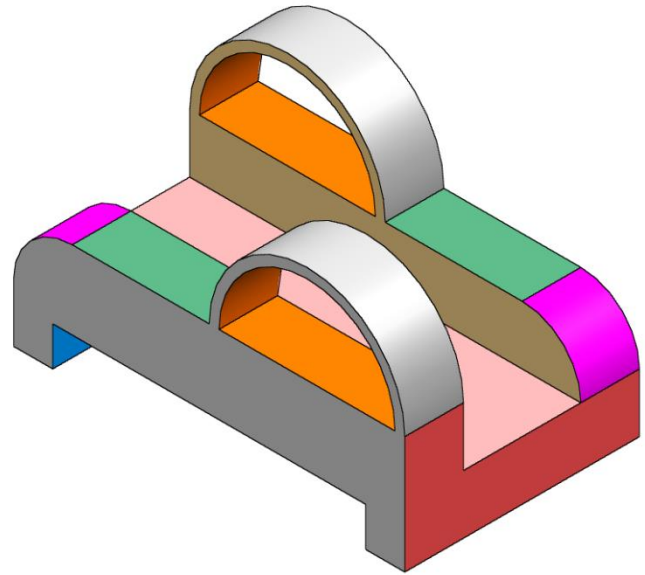
SECTION A-A

EXERCISE-117

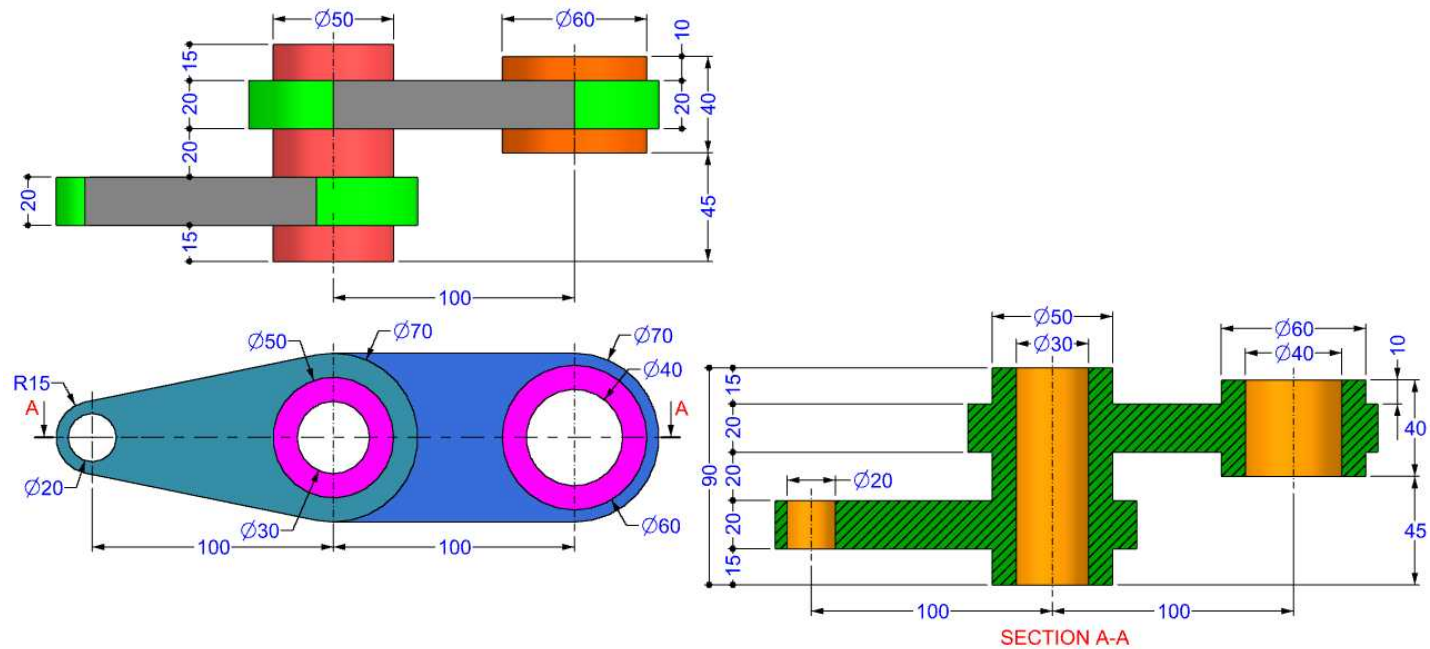
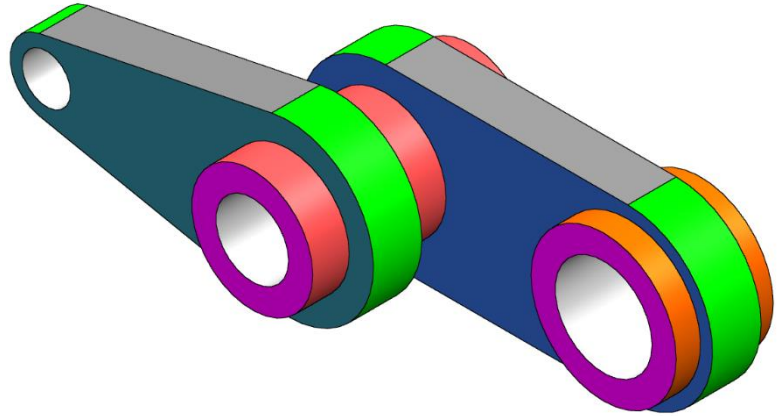


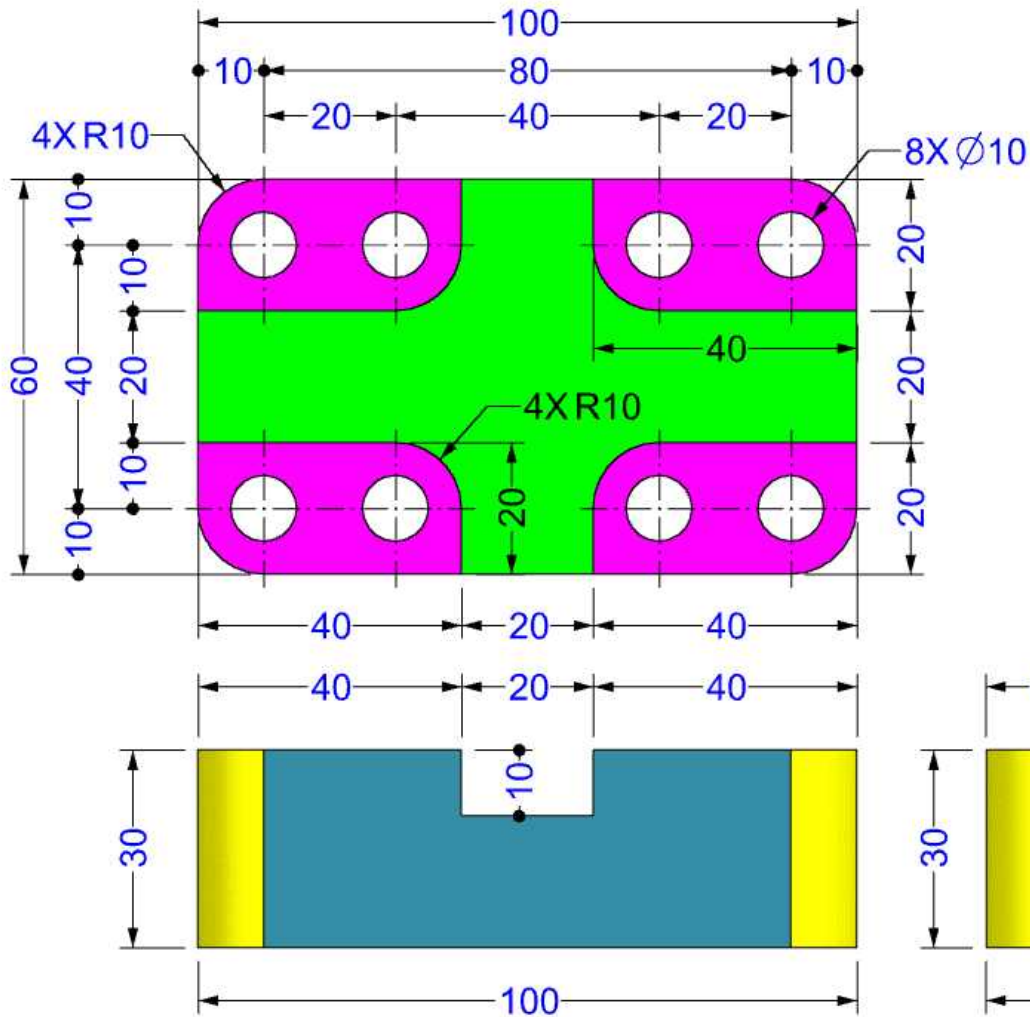
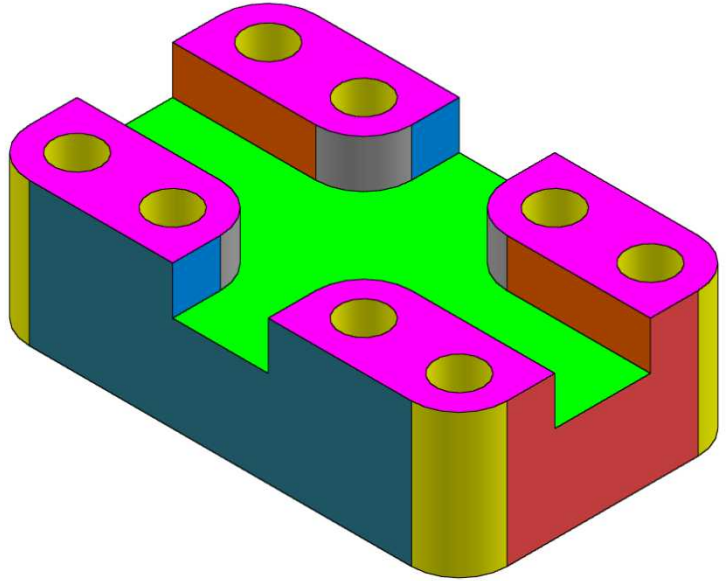
SECTION A-A

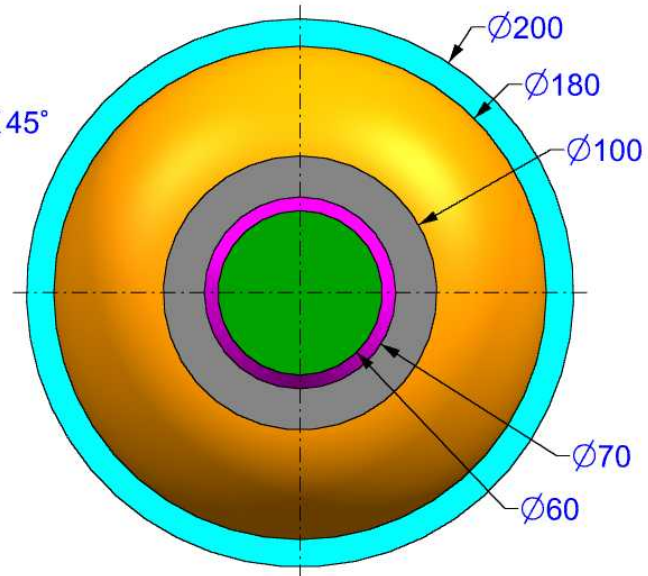
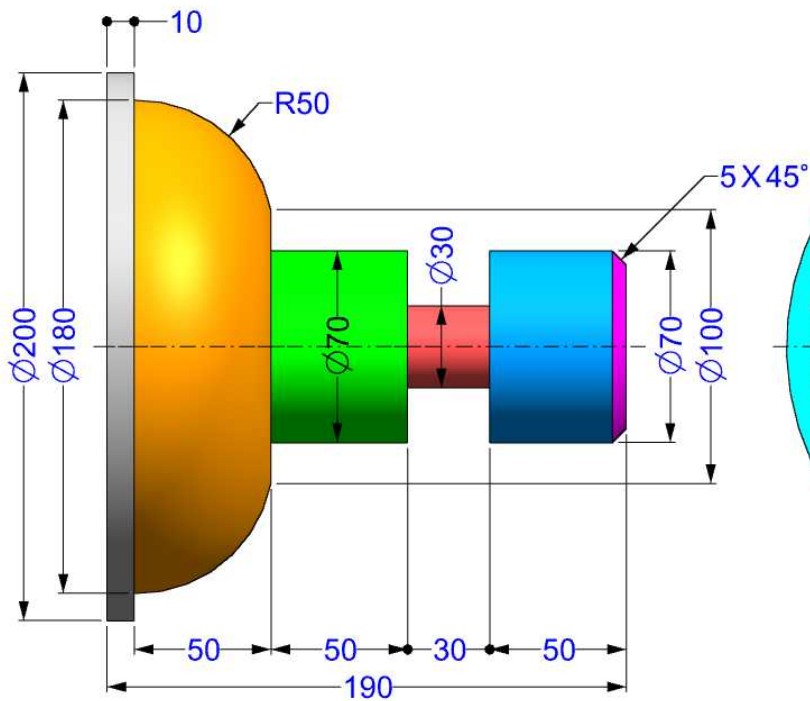
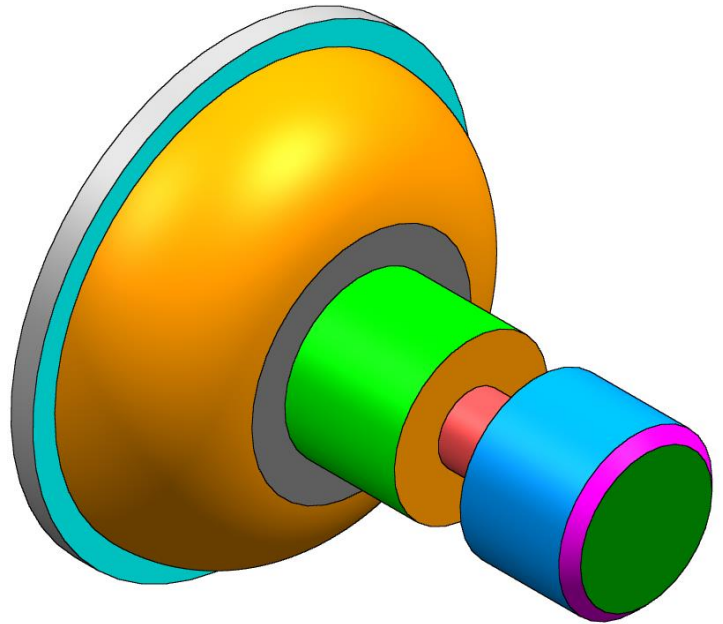


EXERCISE-118

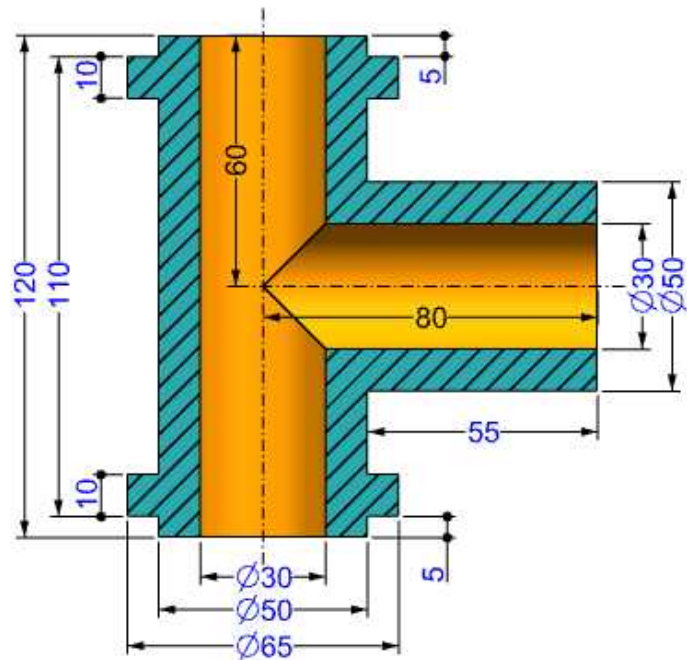
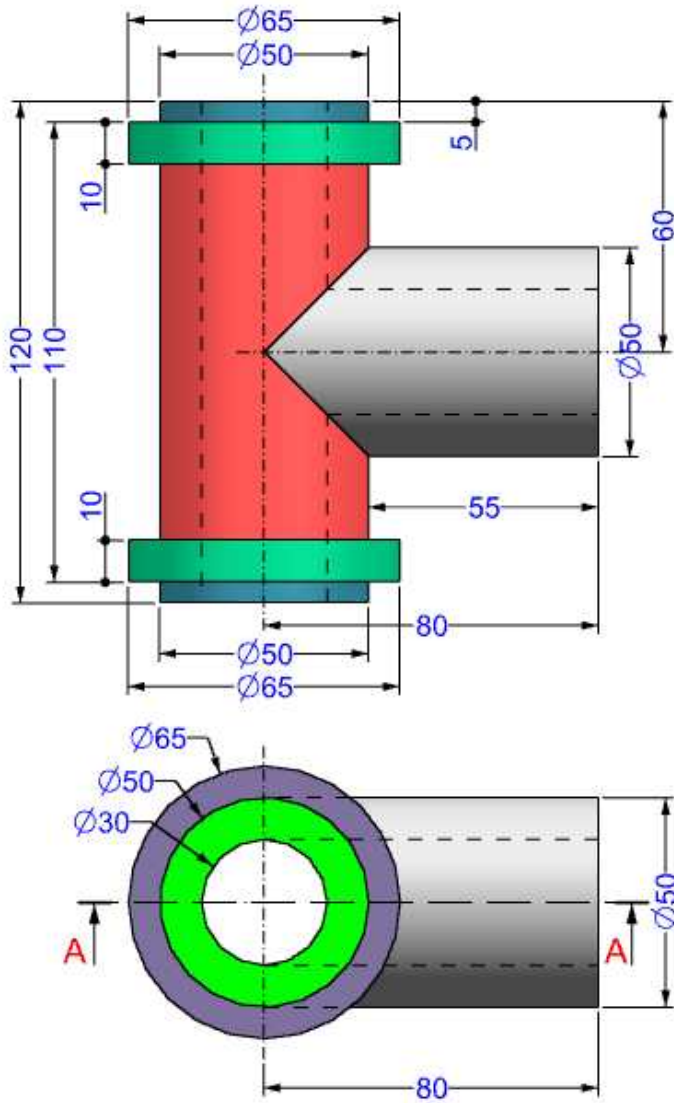
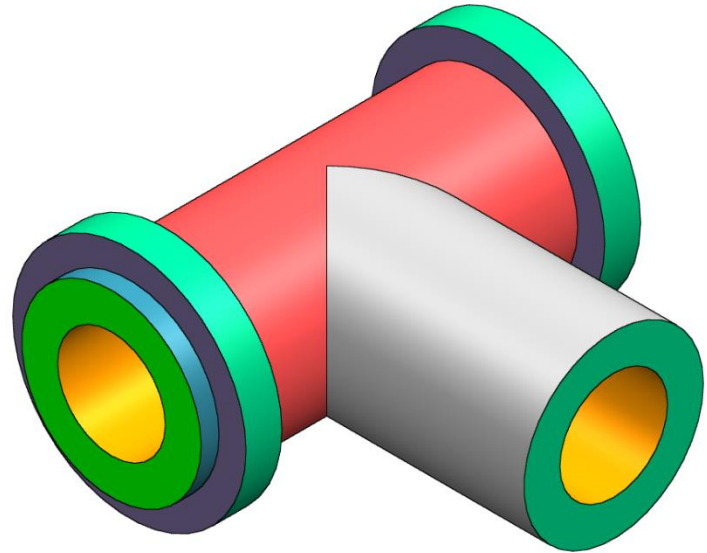
EXERCISE-119



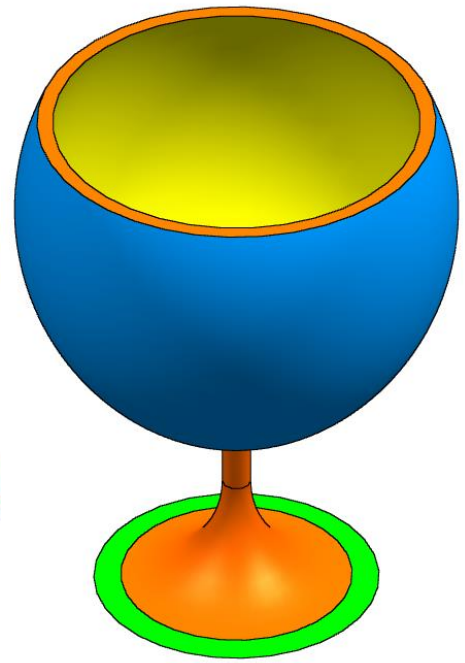
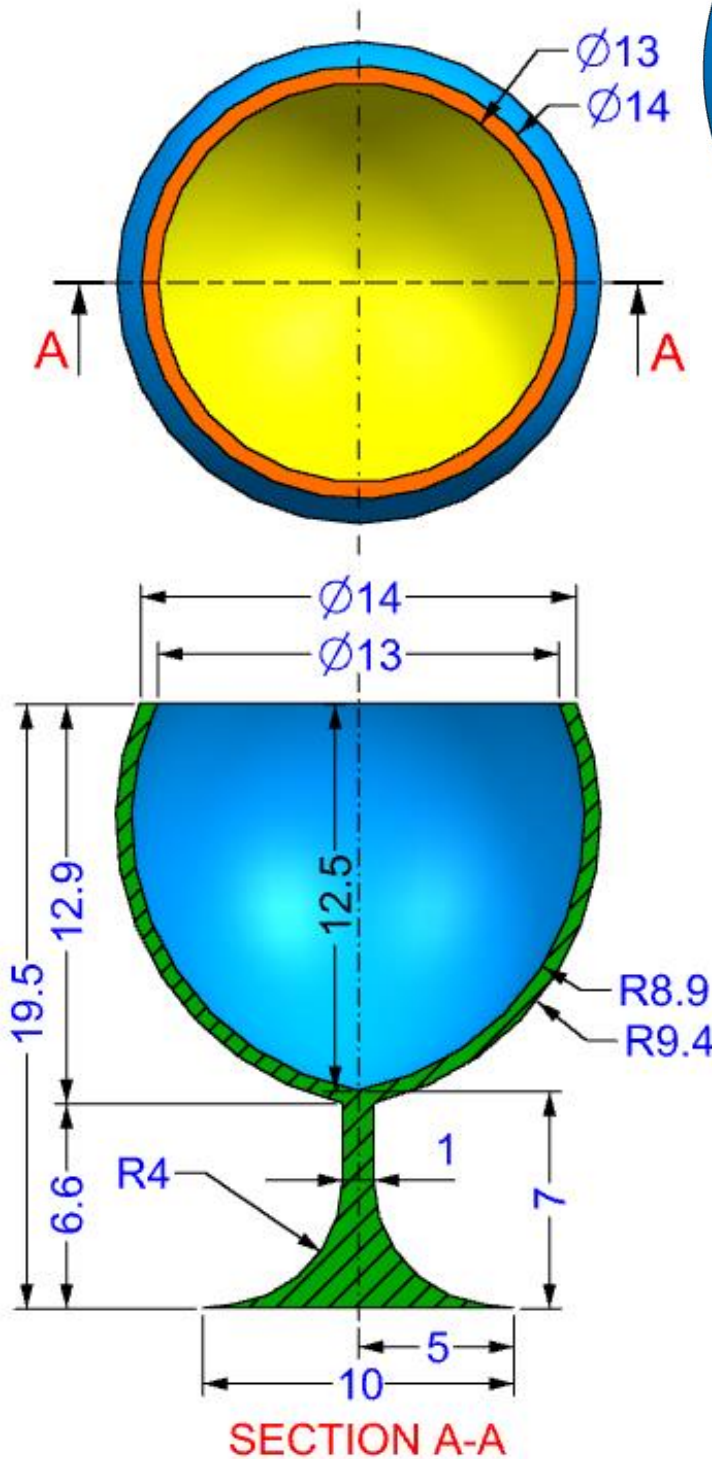
EXERCISE-120

EXERCISE-121

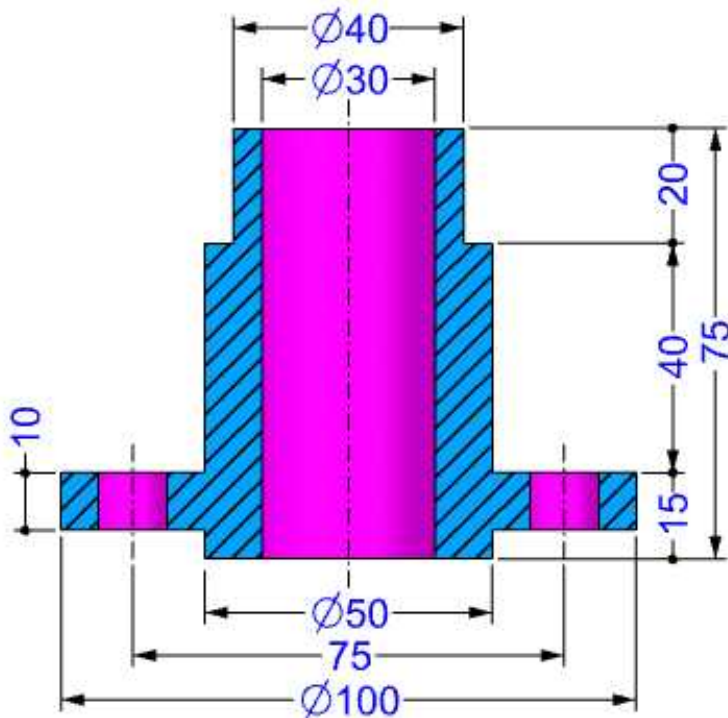
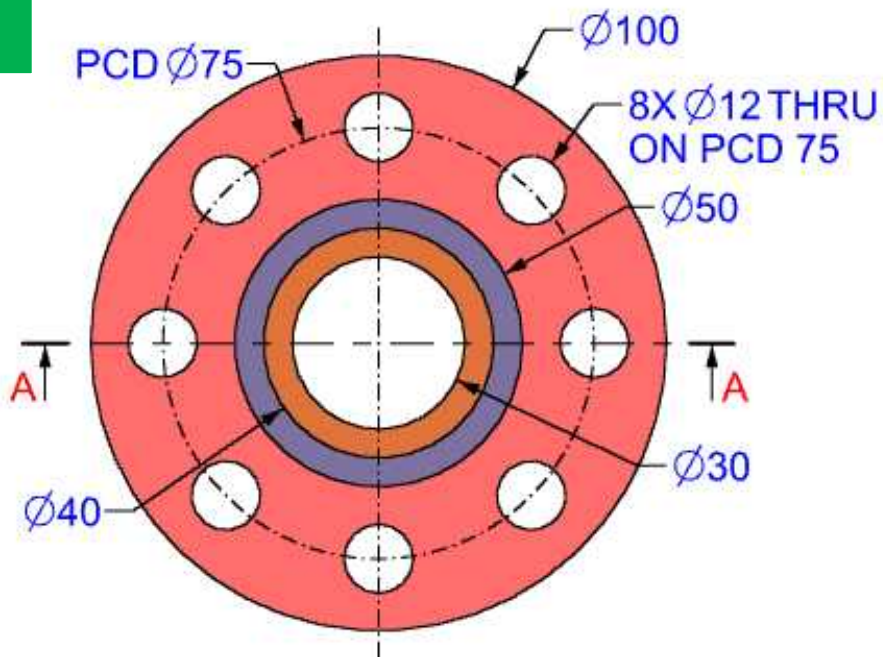
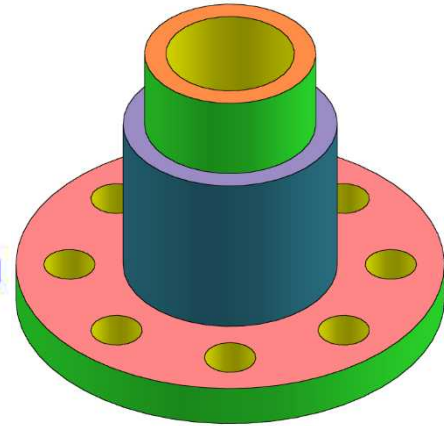
EXERCISE-123



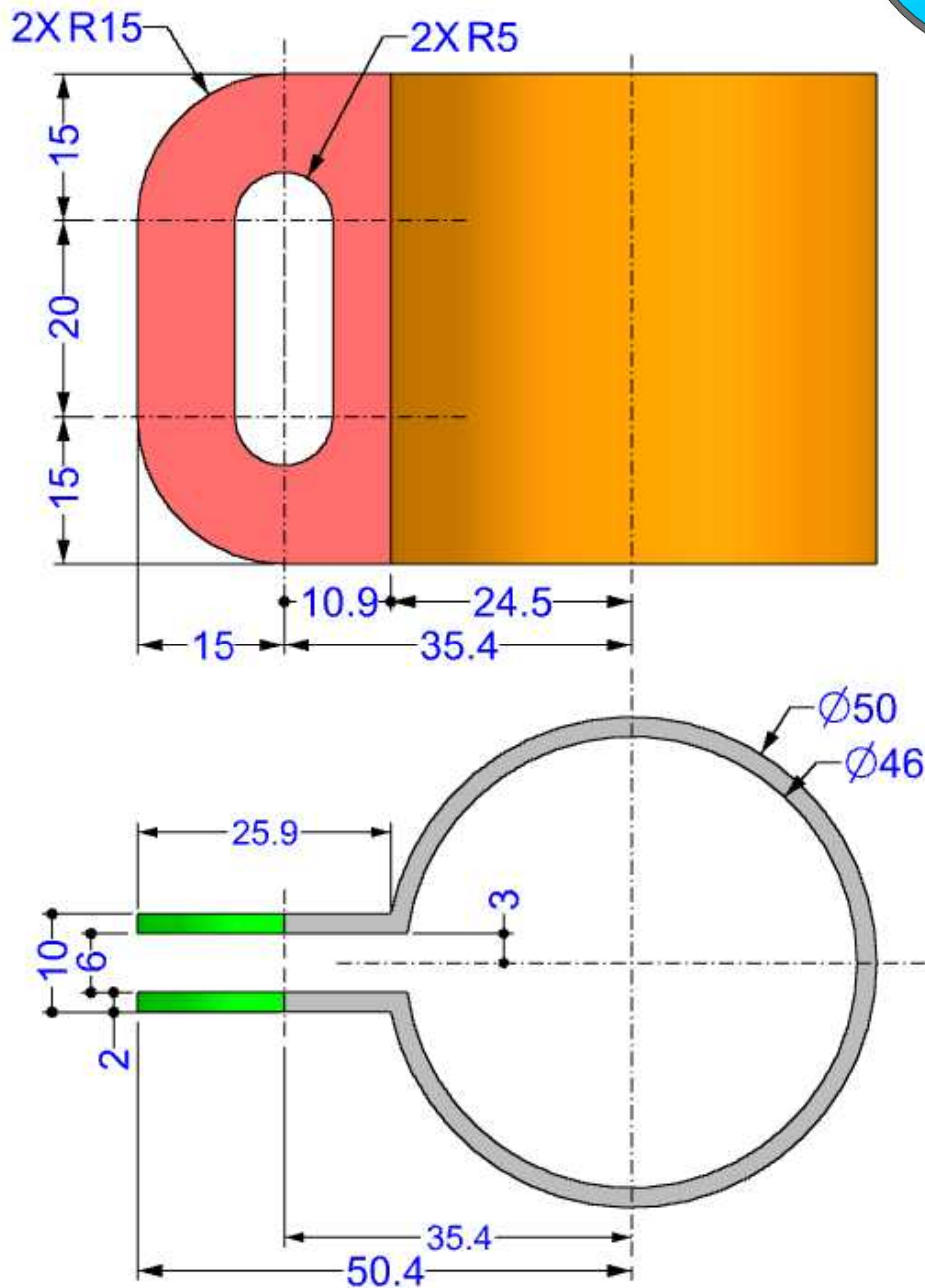
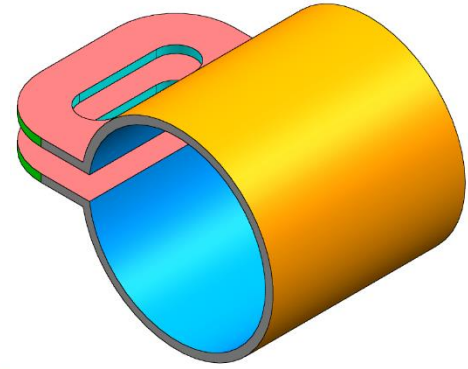
SECTION A-A

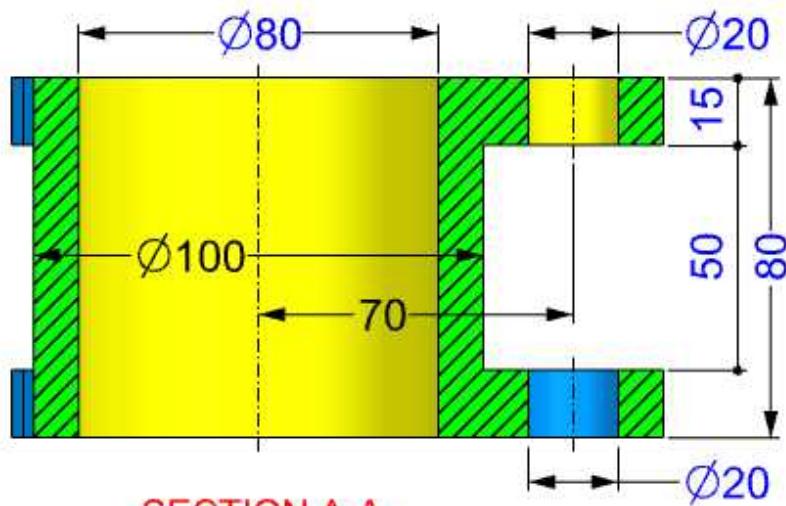
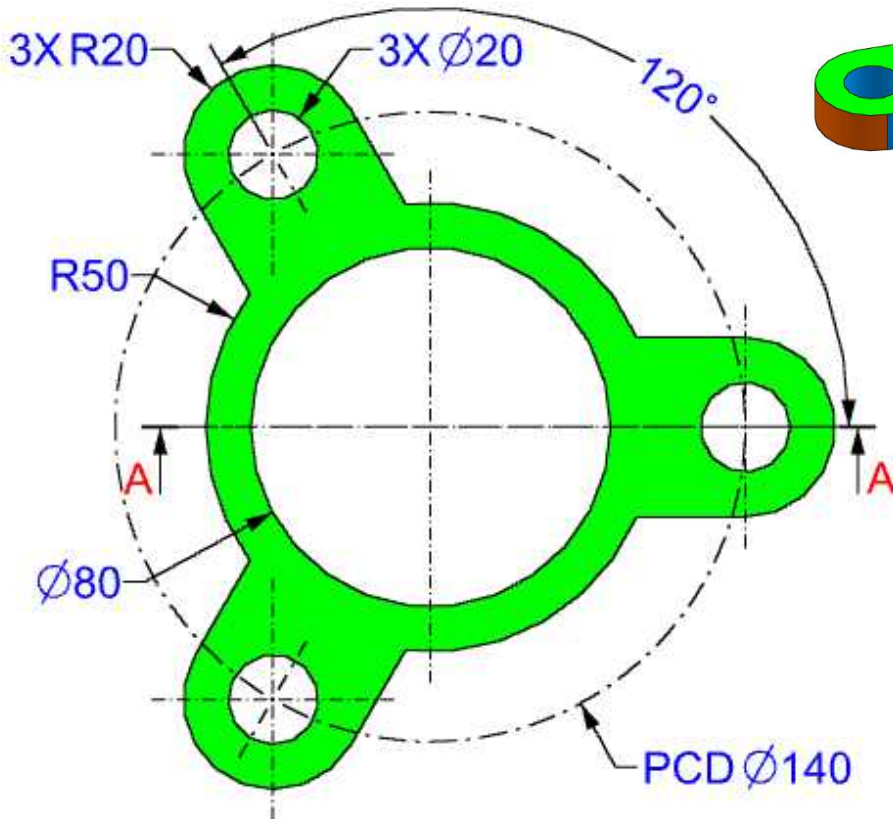
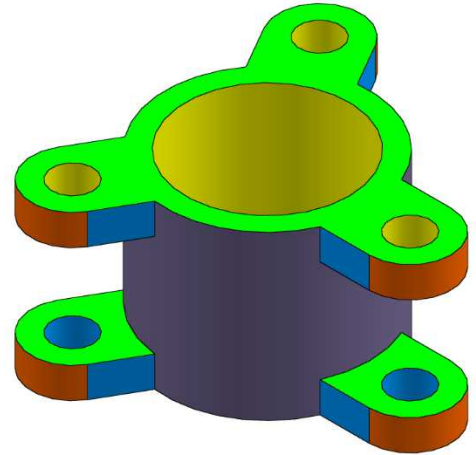
EXERCISE-124

EXERCISE-125

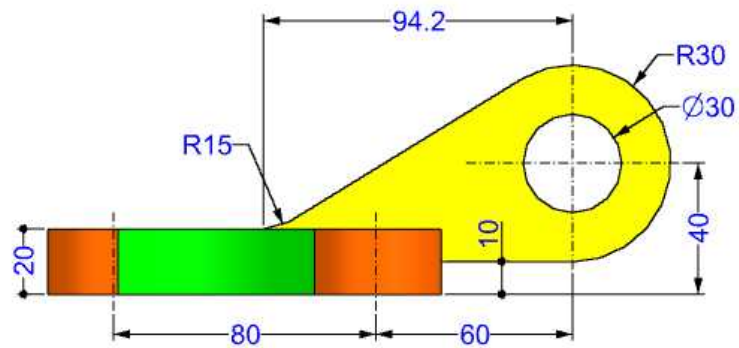
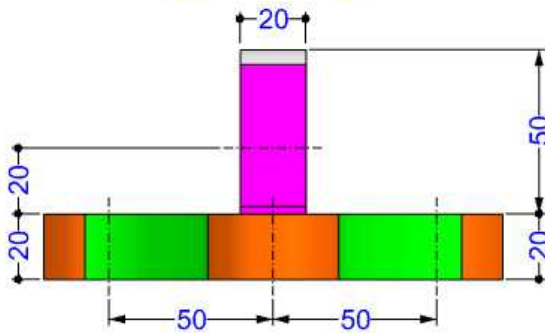
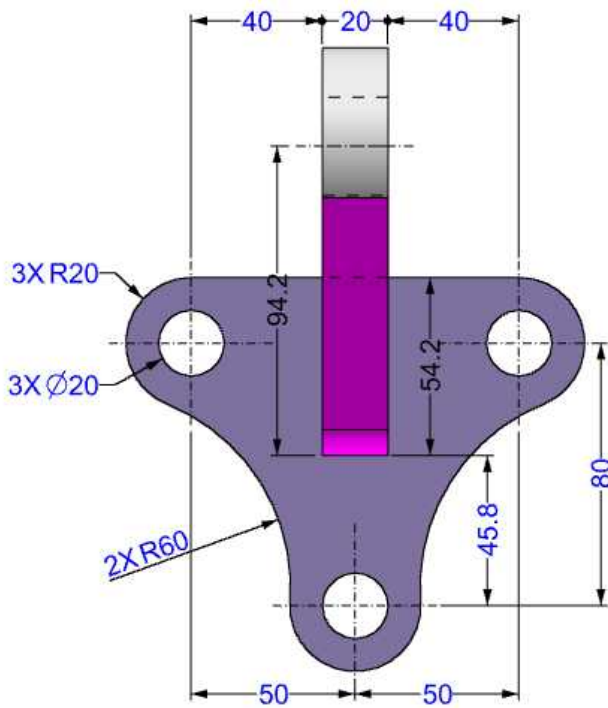
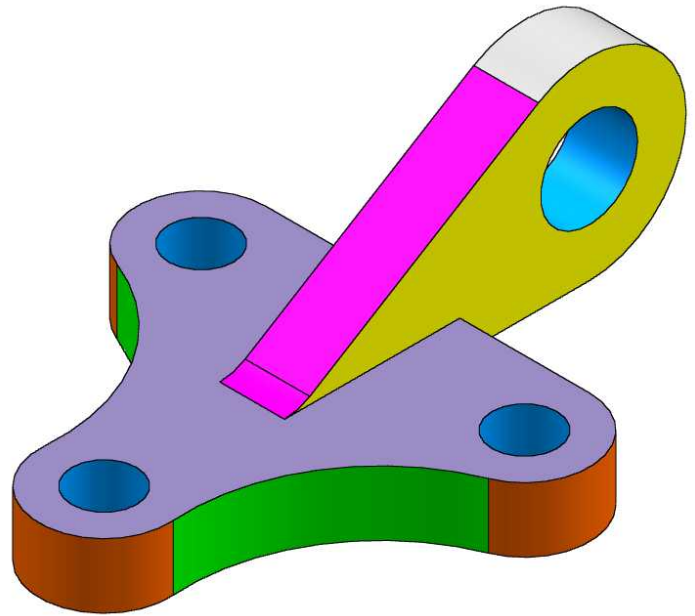


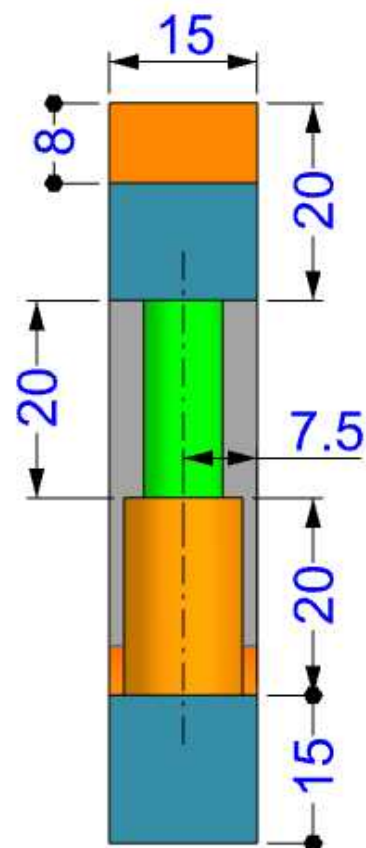
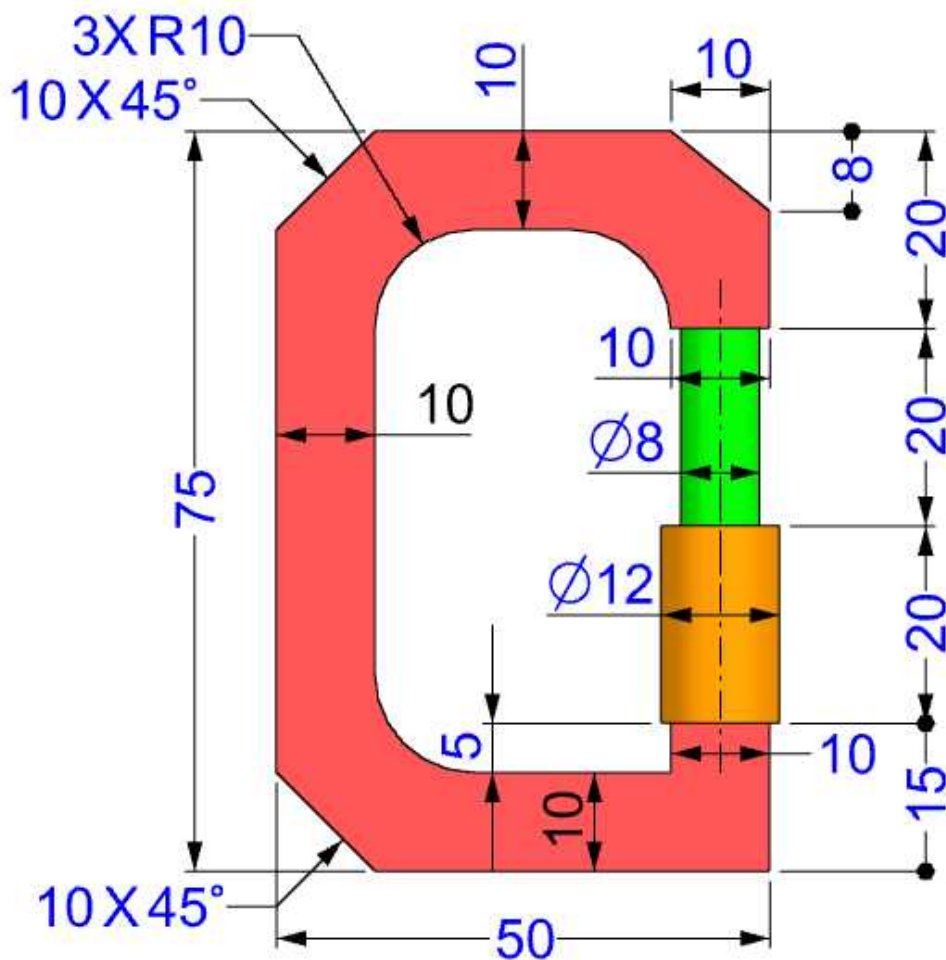
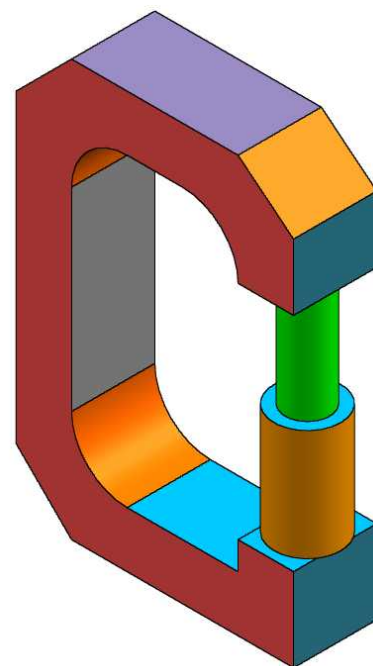
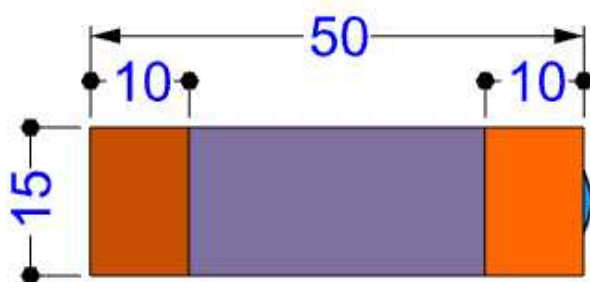
SECTION A-A

EXERCISE-126

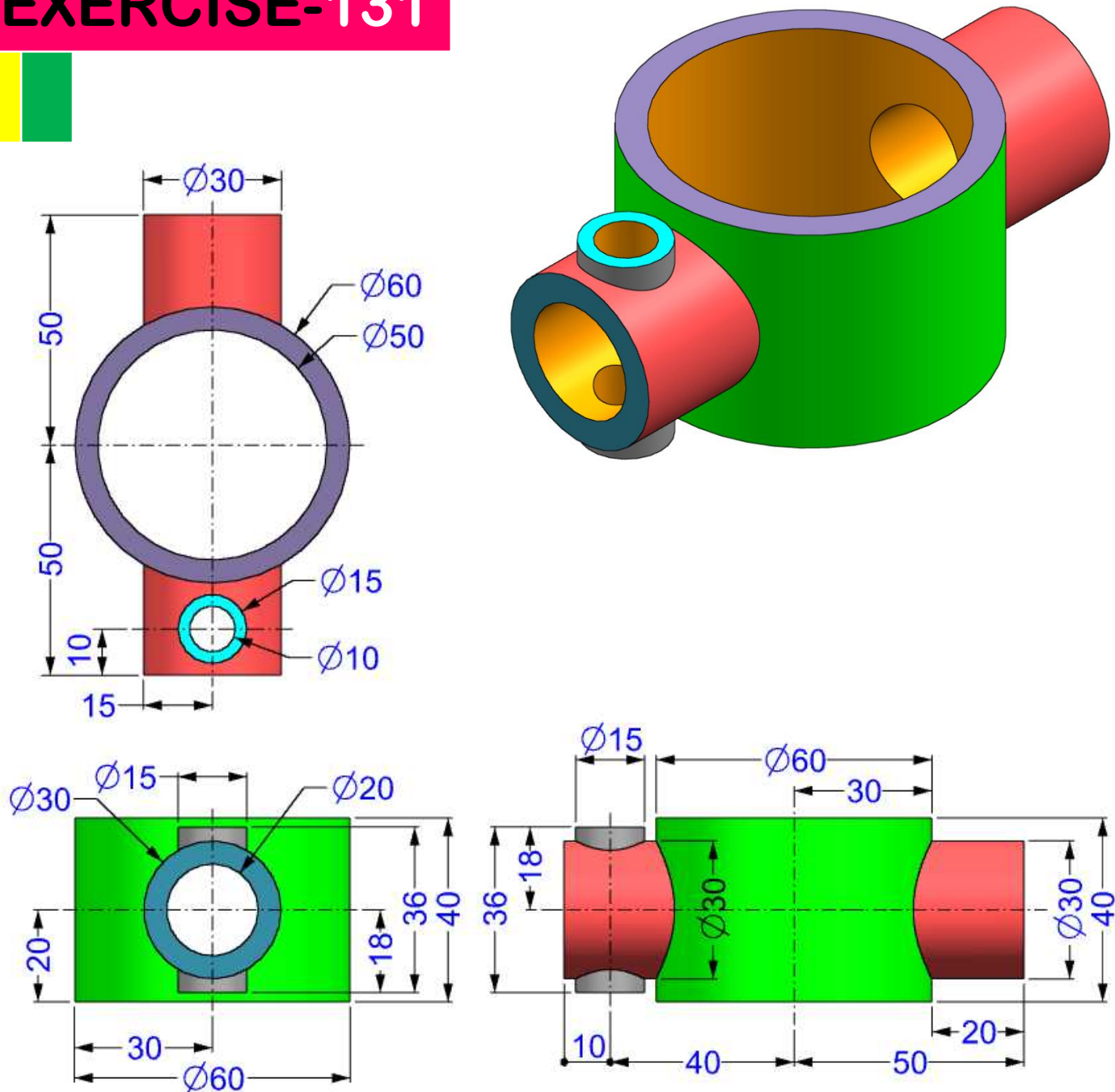
EXERCISE-127**SECTION A-A**

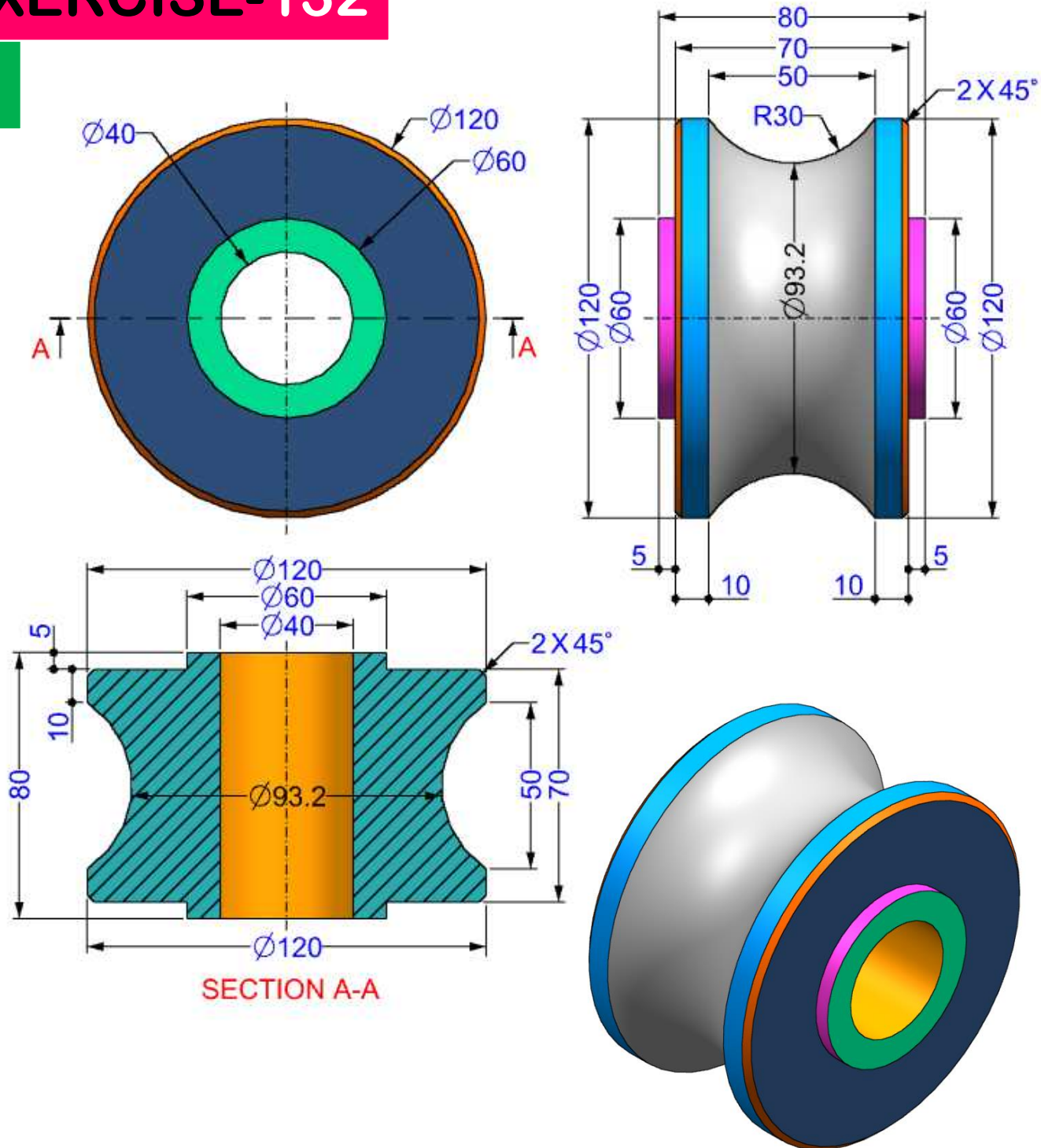
EXERCISE-129

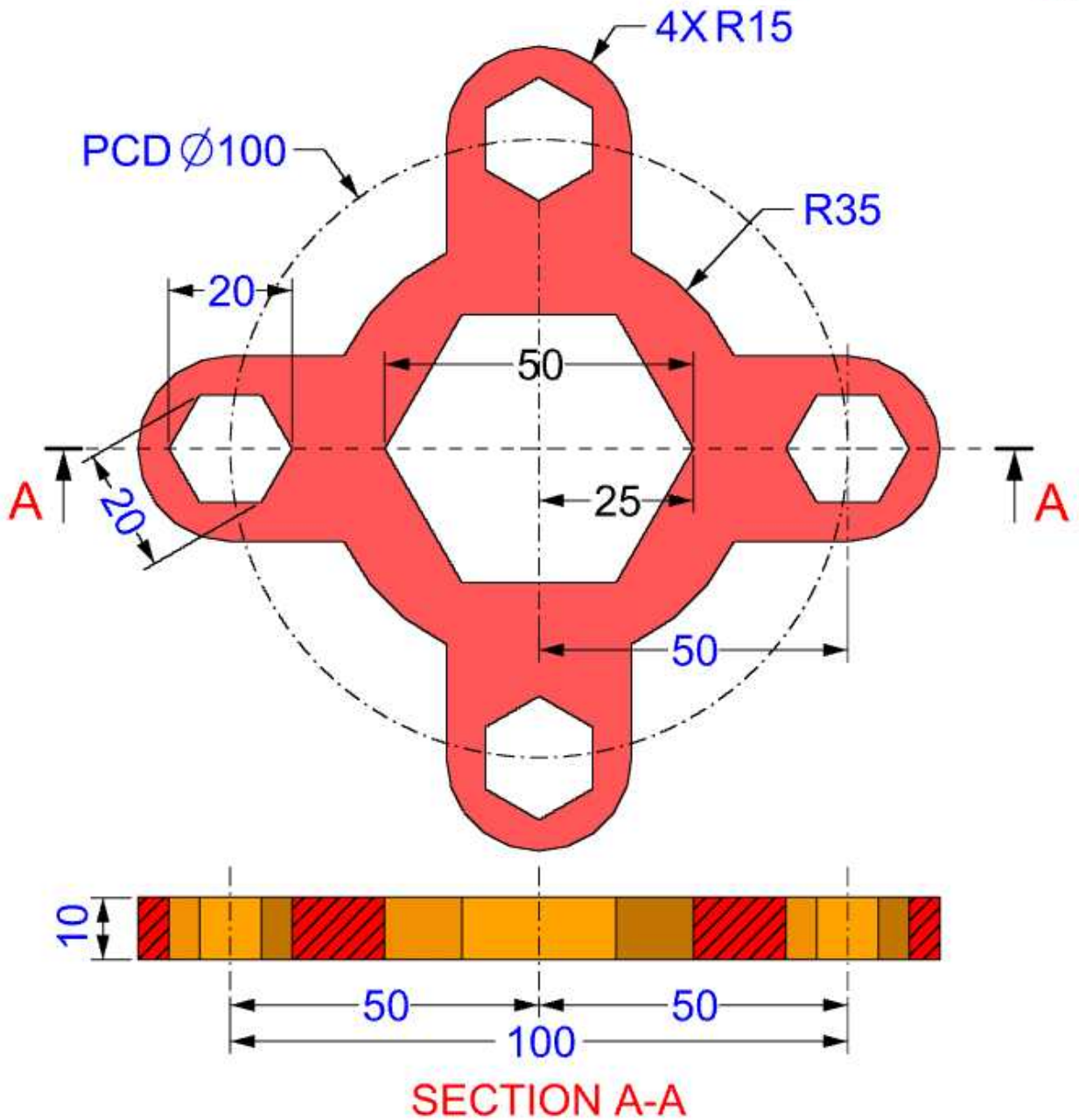
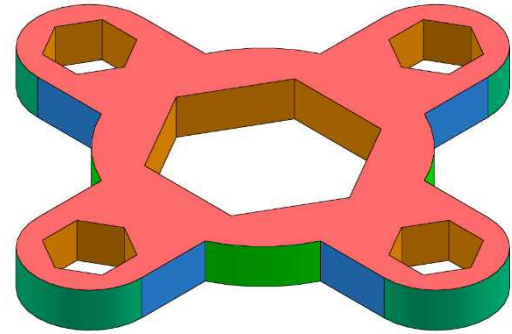


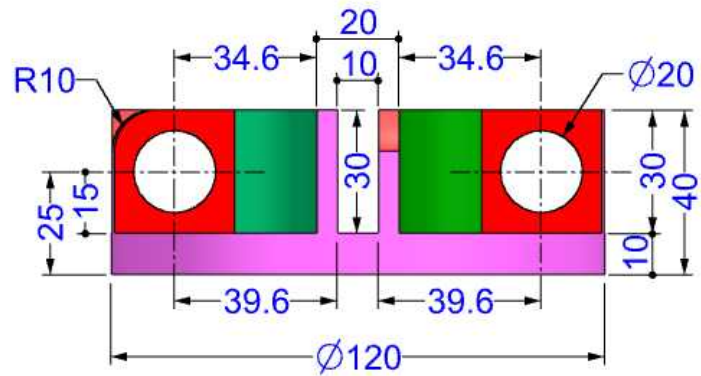
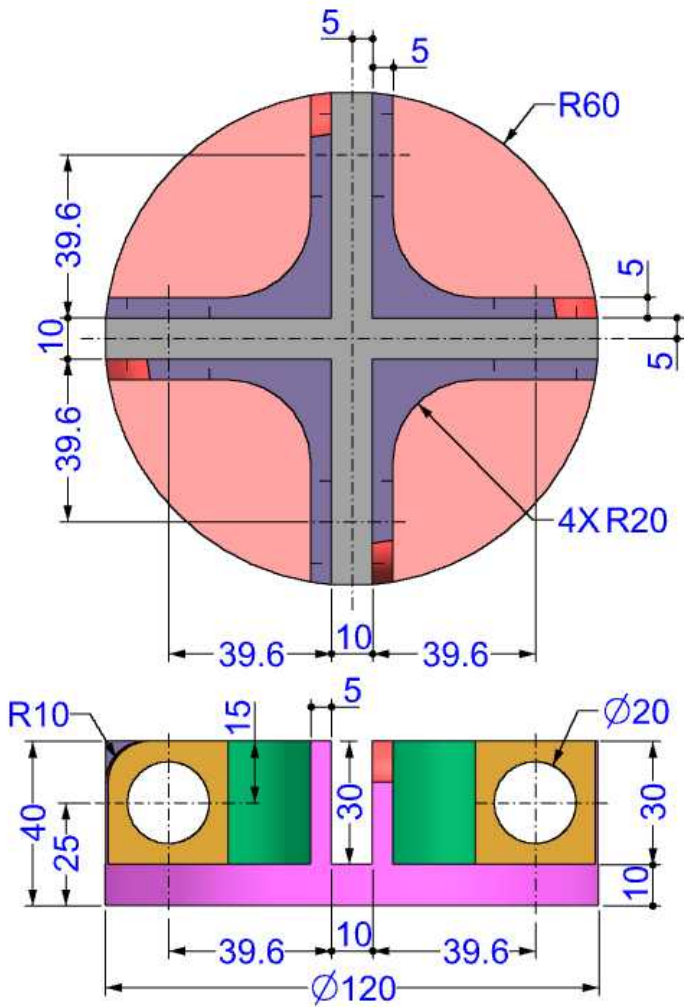
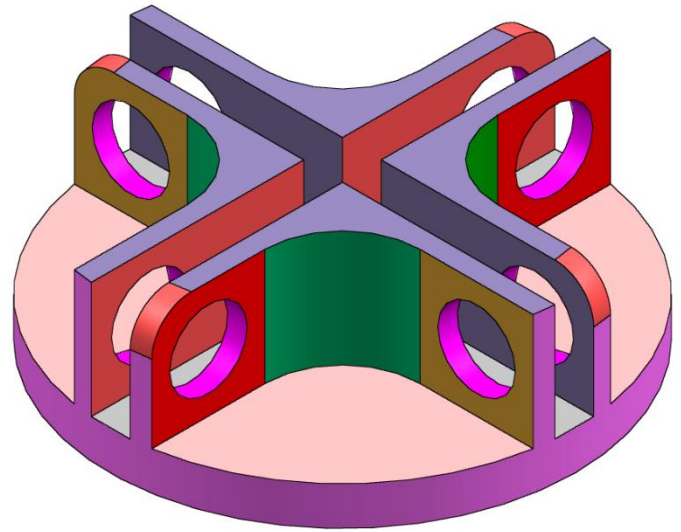
EXERCISE-130

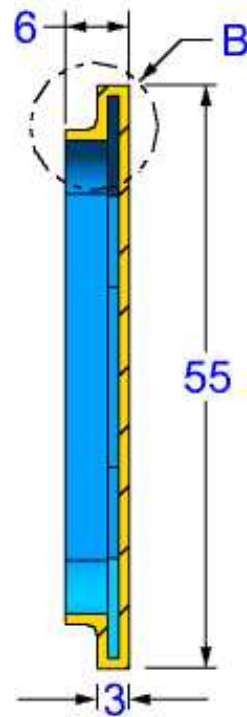
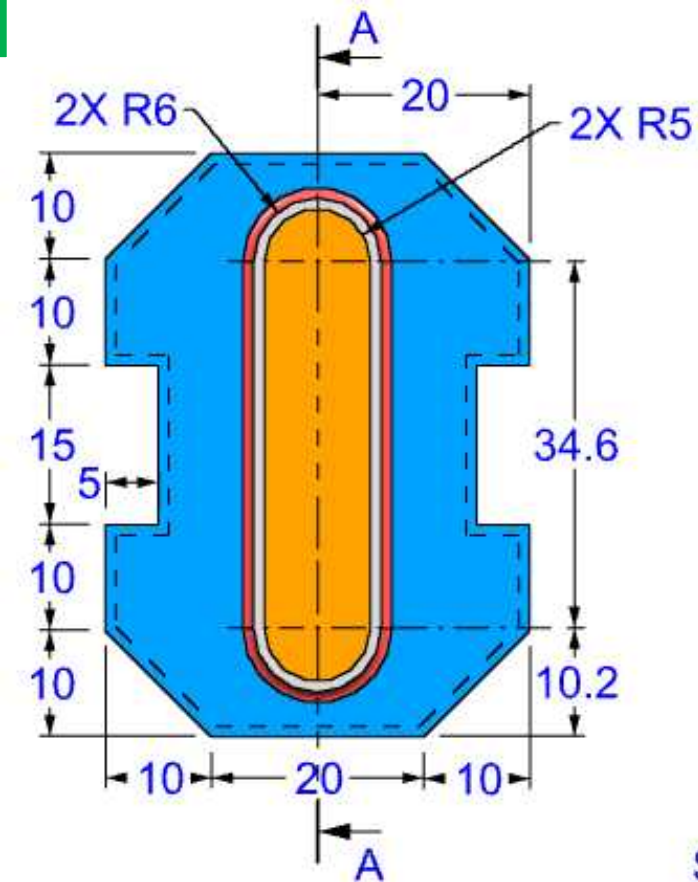
EXERCISE-131



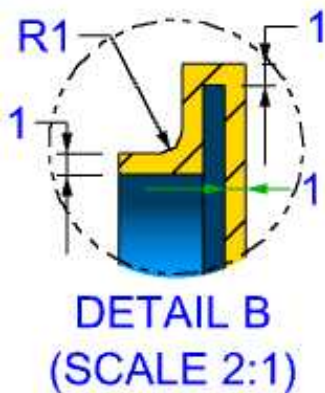
EXERCISE-132

EXERCISE-133

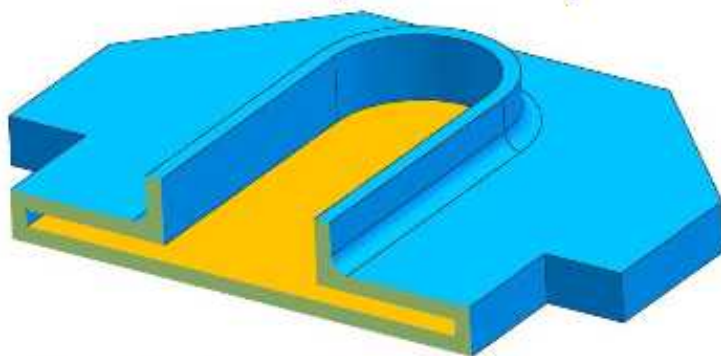
EXERCISE-134

EXERCISE-135

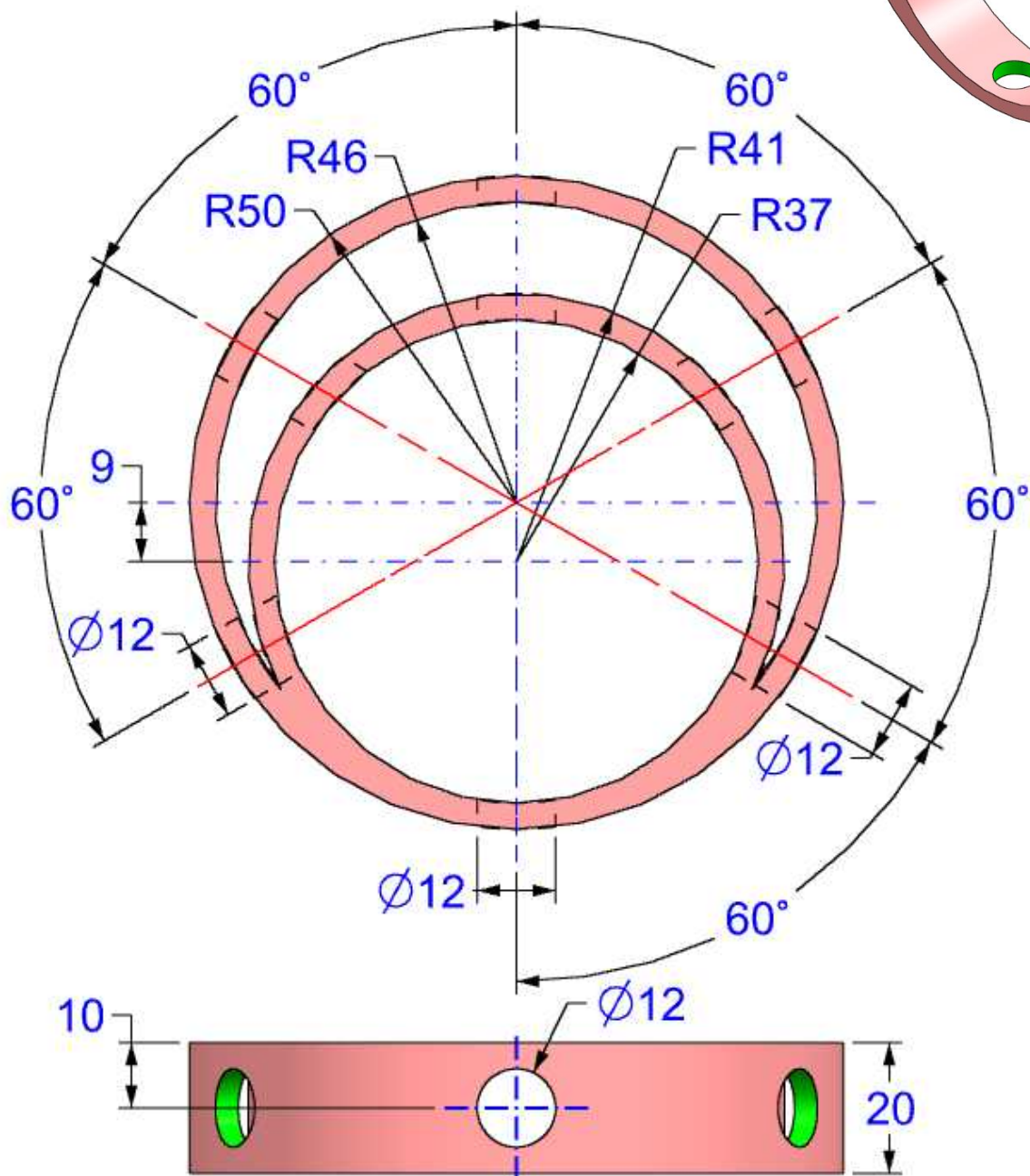
SECTION A-A
(SCALE 1:1)

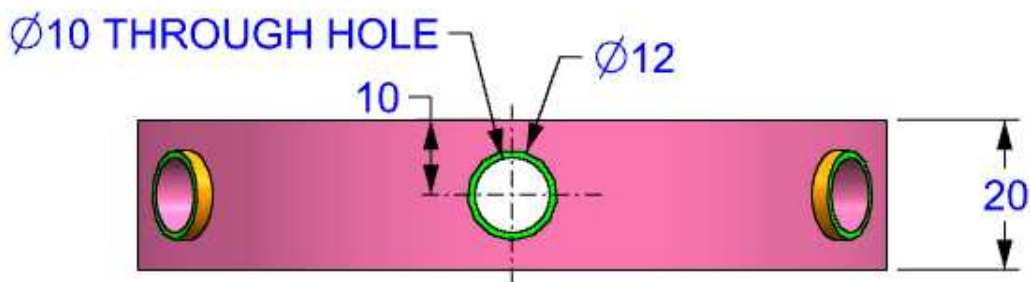
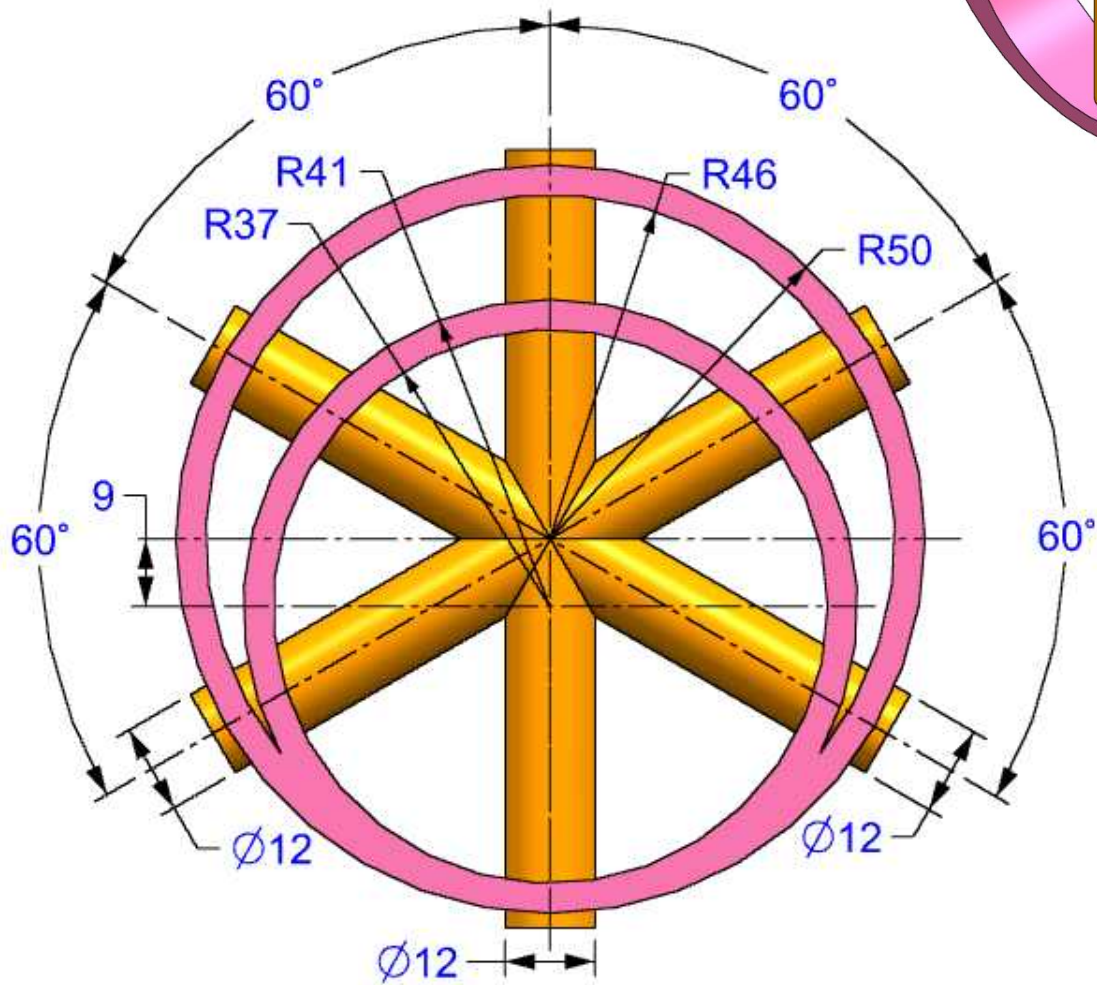
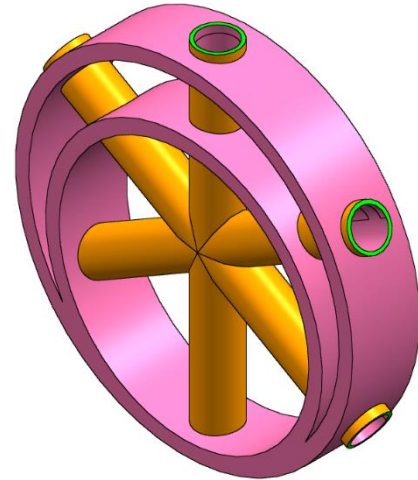


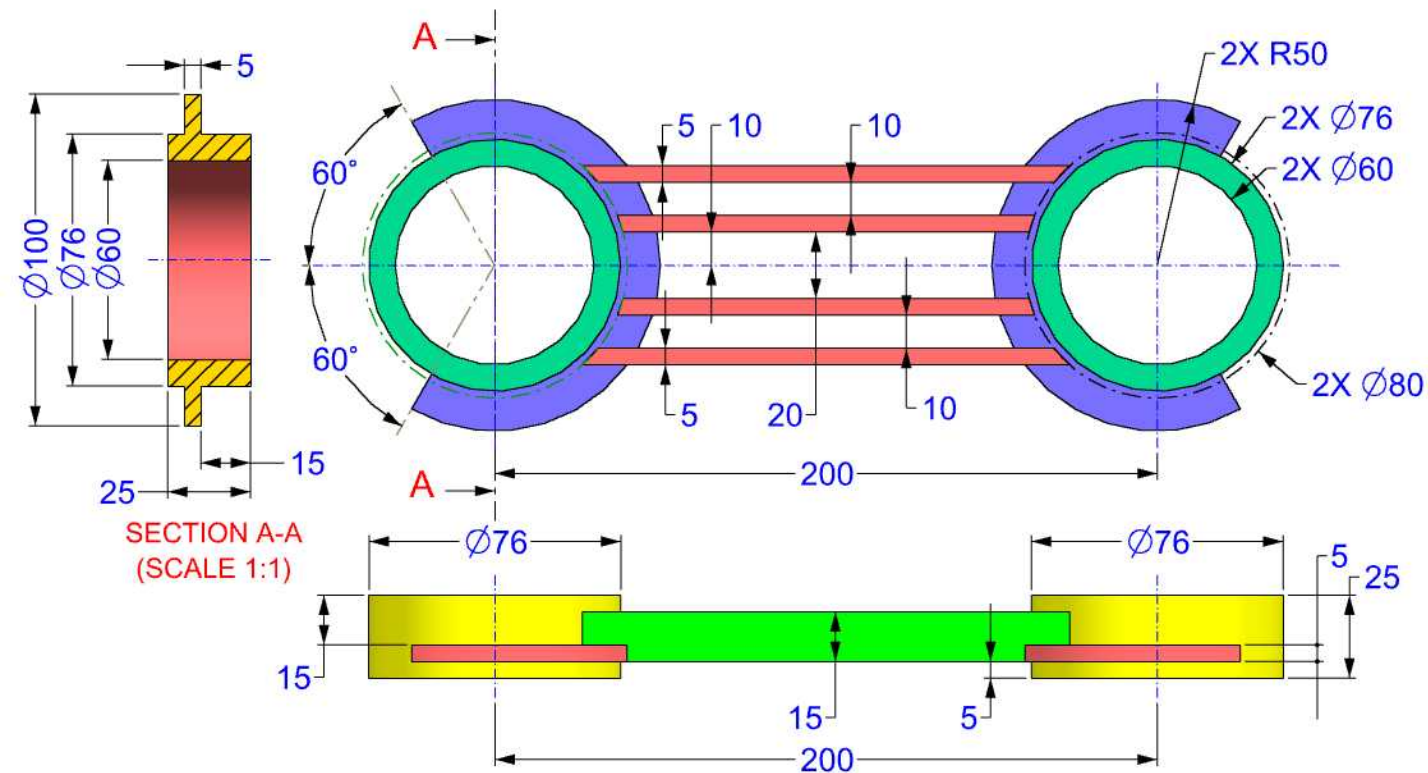
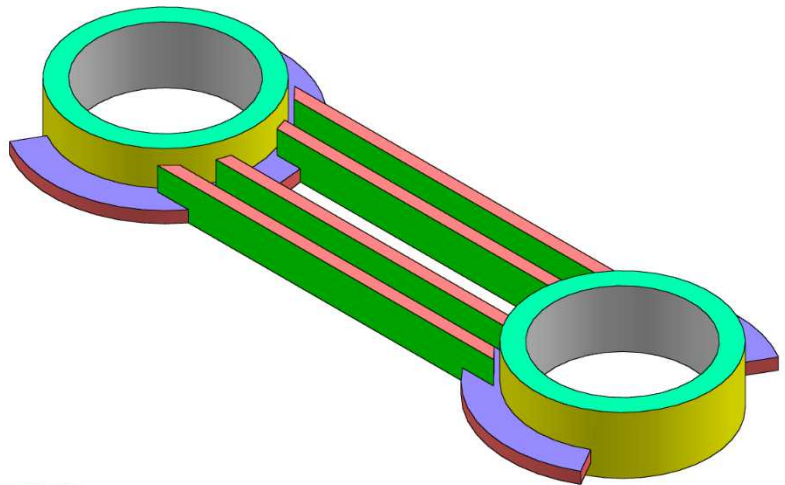
DETAIL B
(SCALE 2:1)

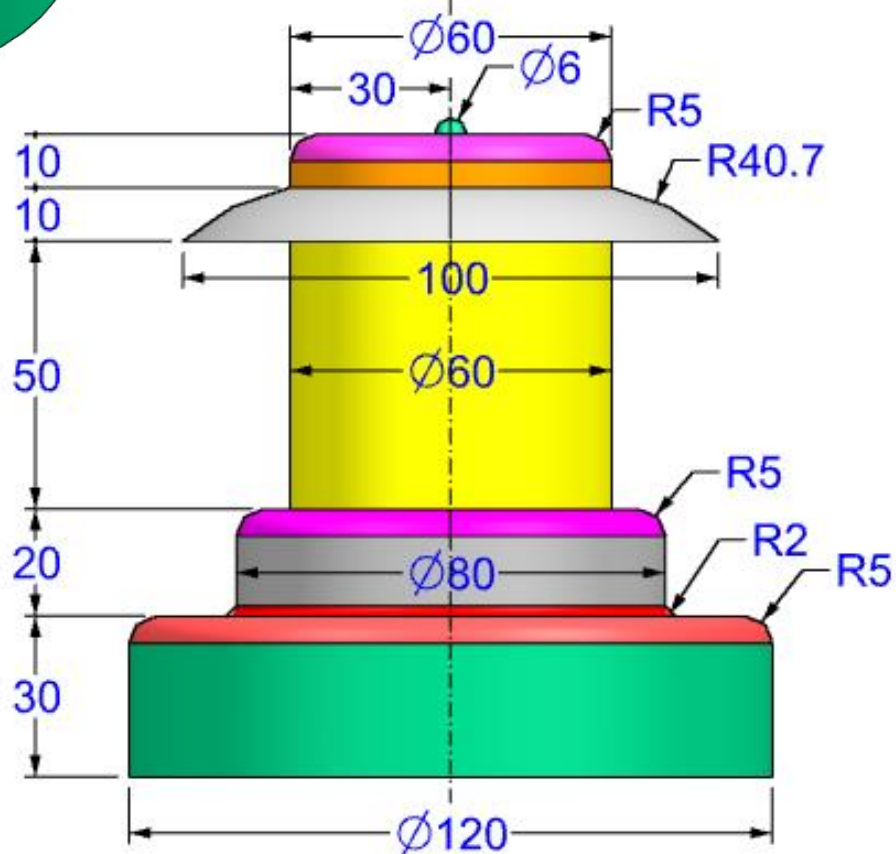
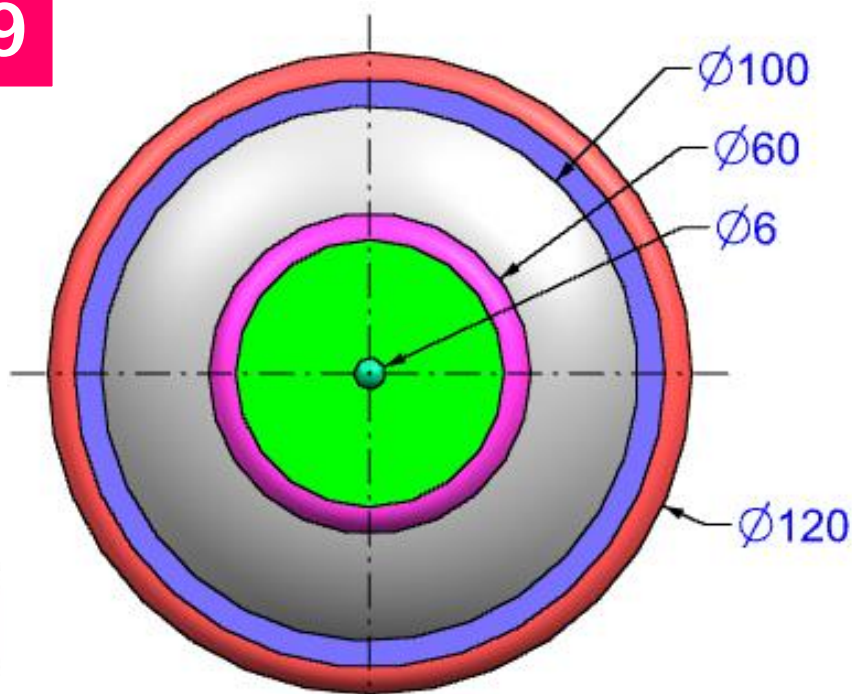
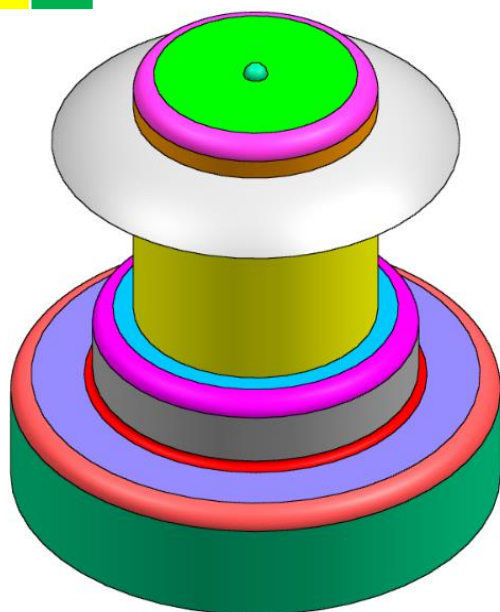


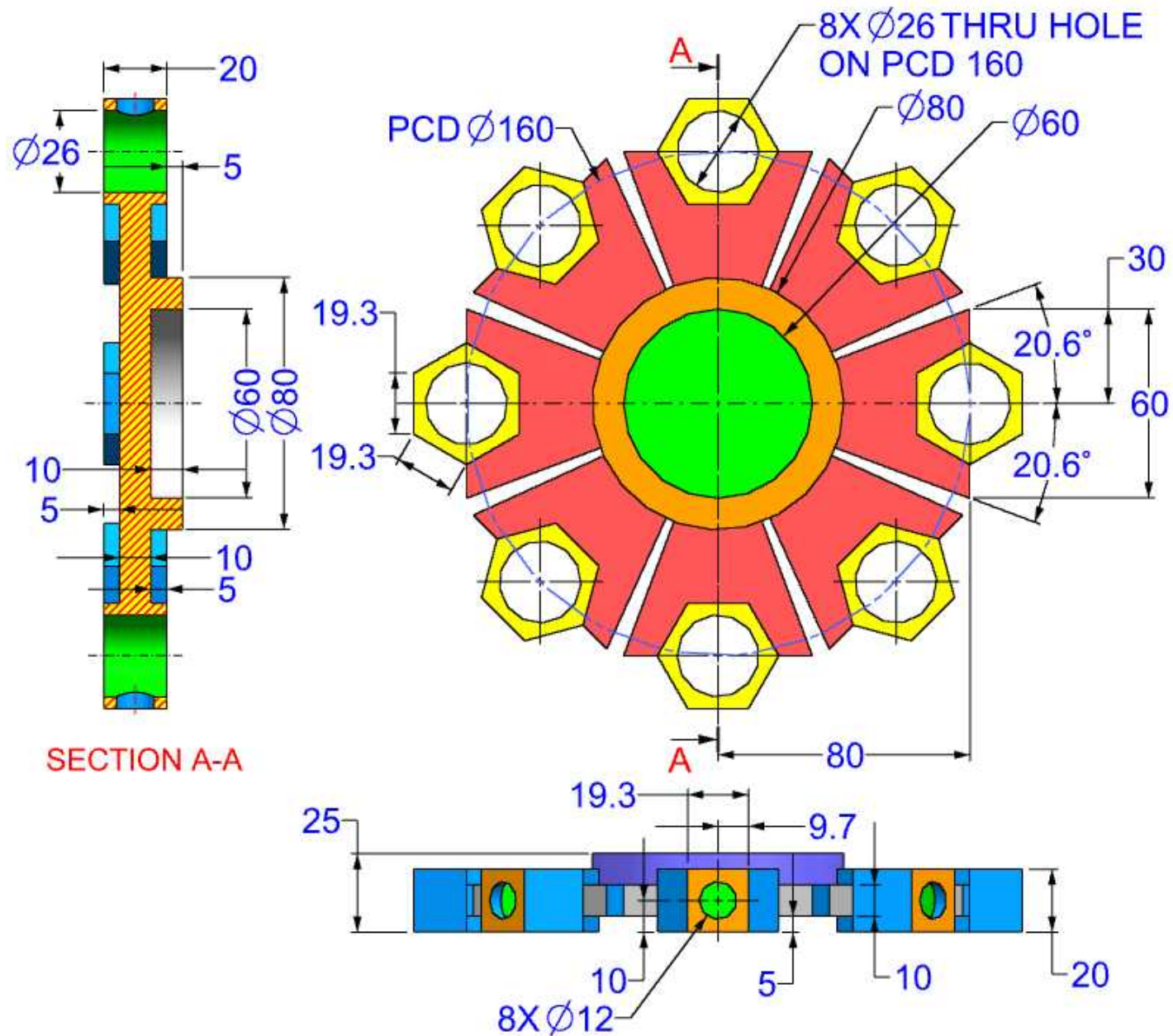
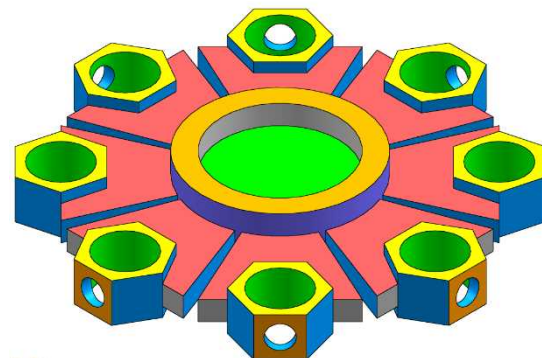
SHELL THICKNESS = 1MM
ALL INSIDE WALL THICKNESS

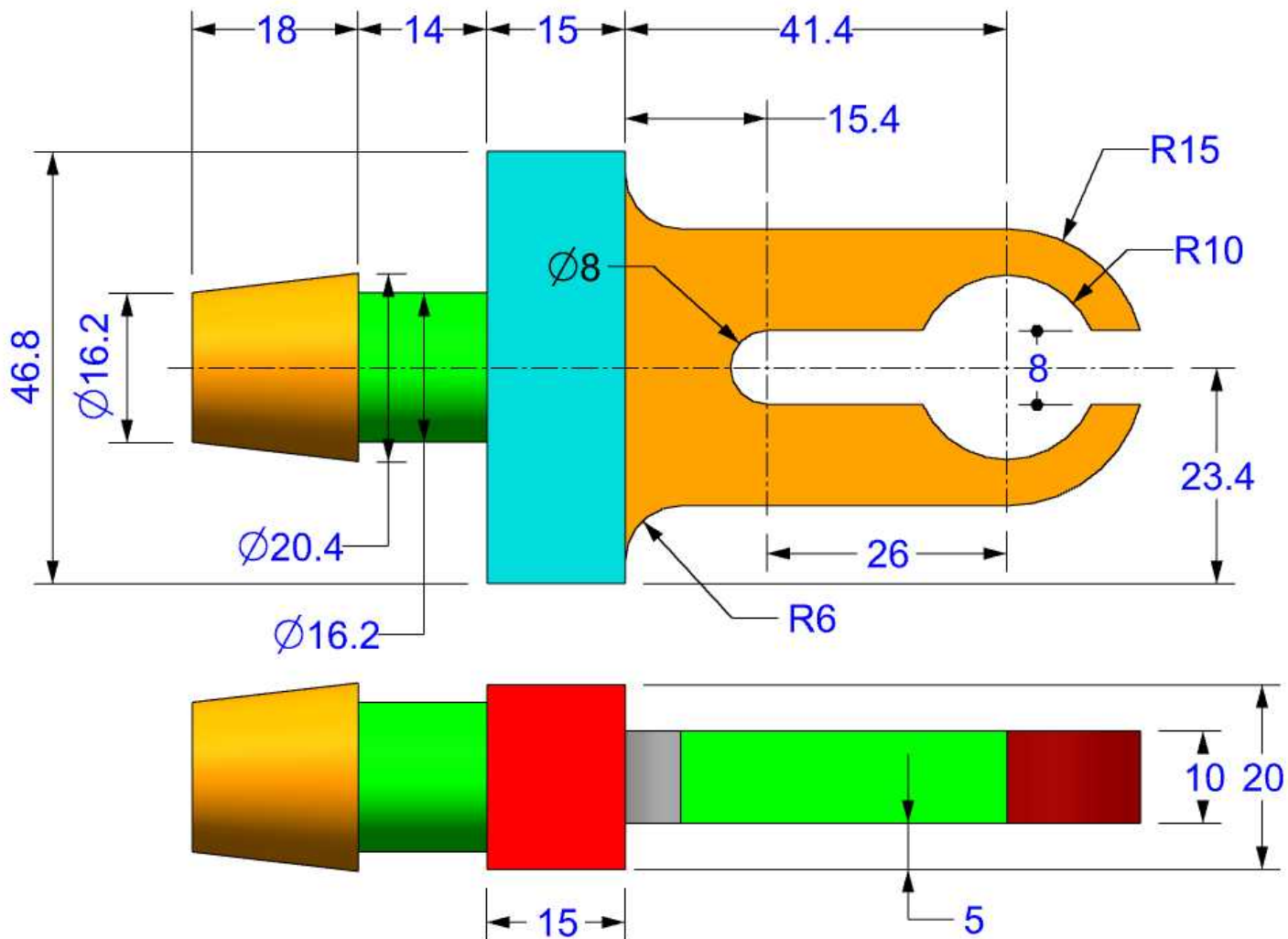
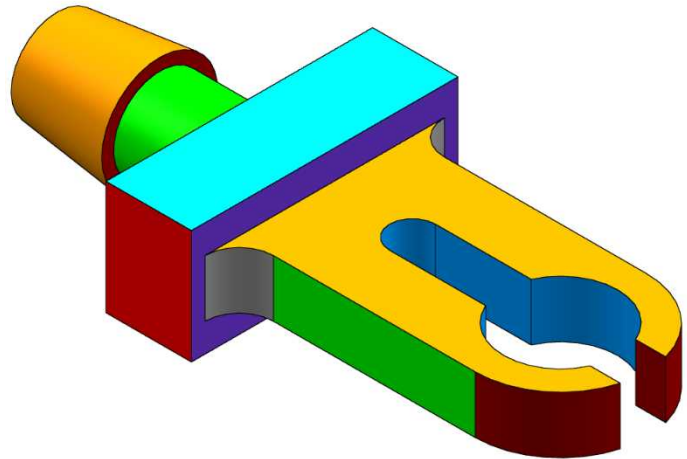


EXERCISE-137

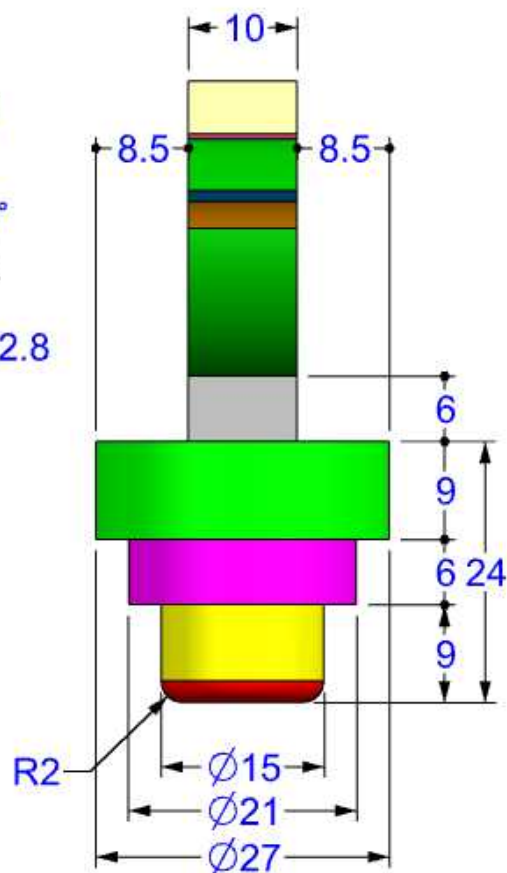
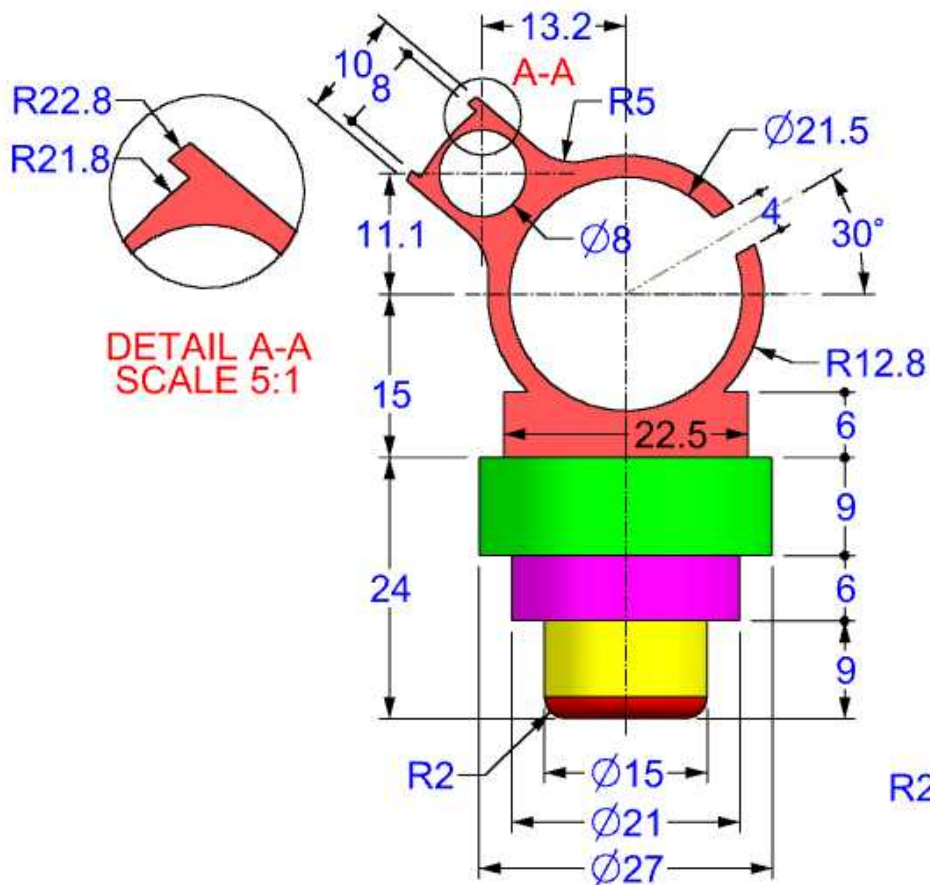
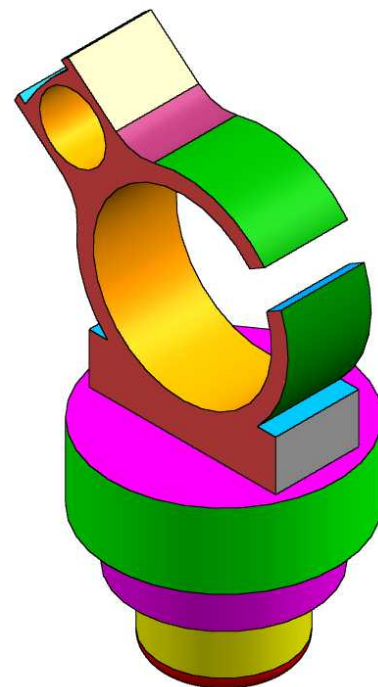
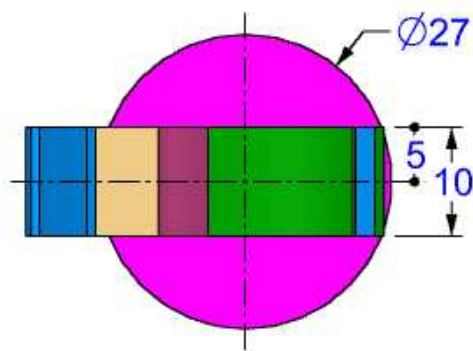
EXERCISE-138

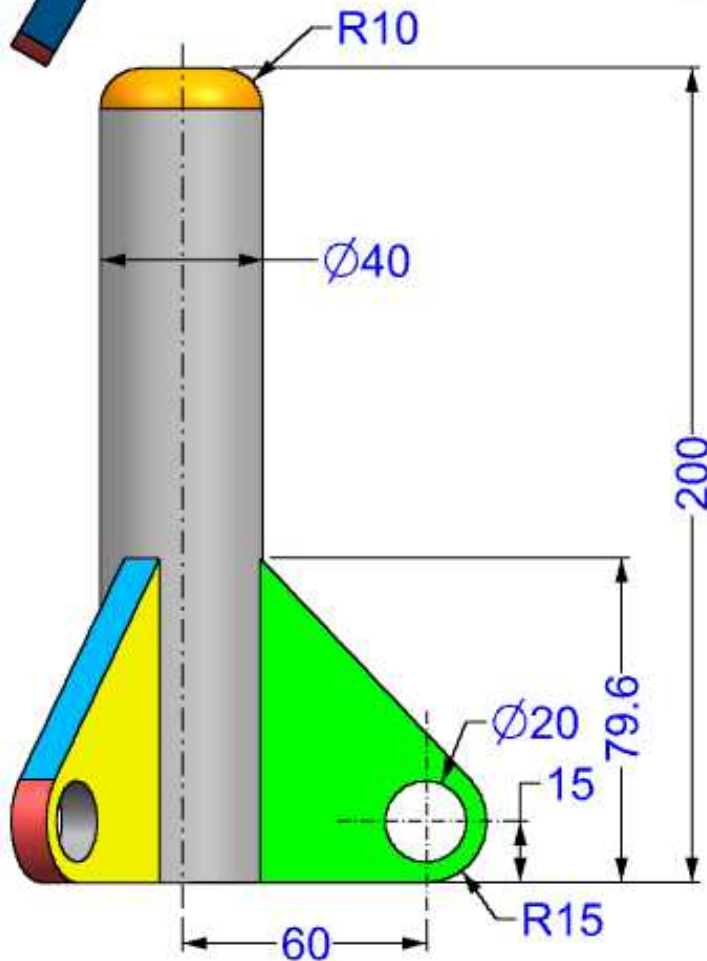
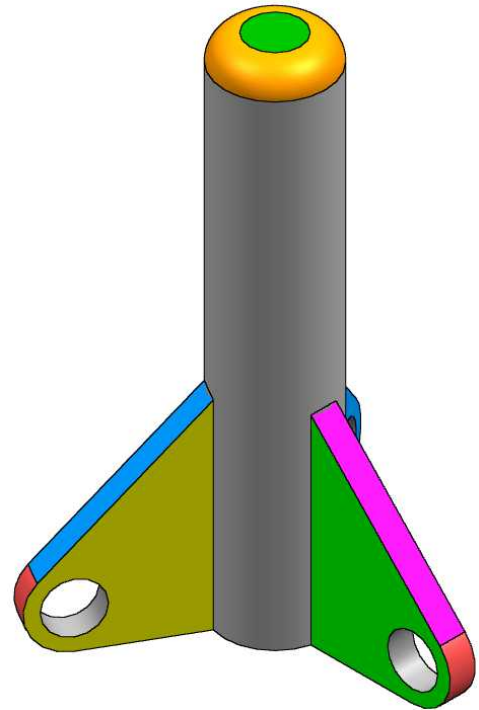
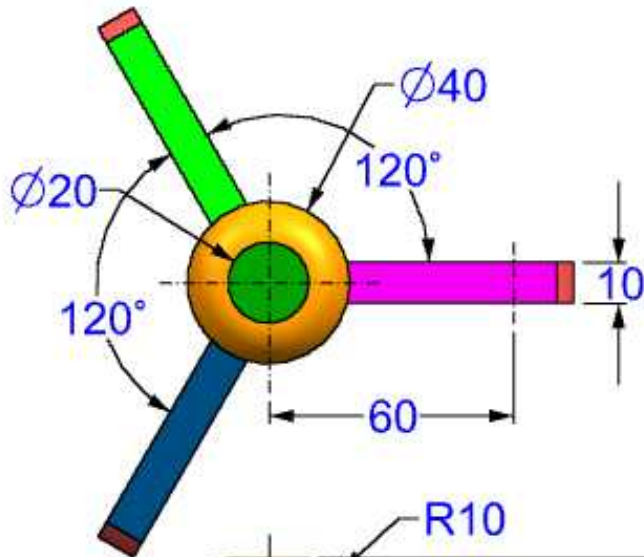
EXERCISE-139

EXERCISE-141

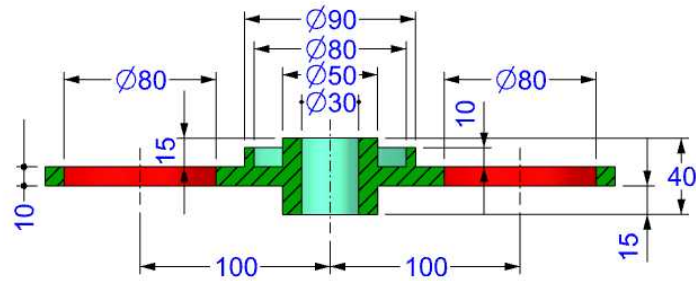
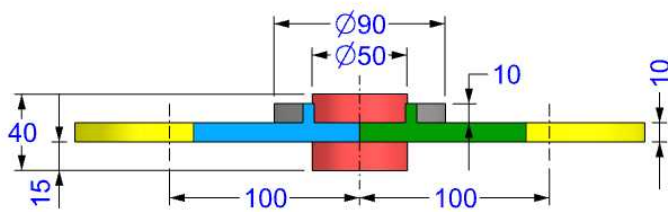
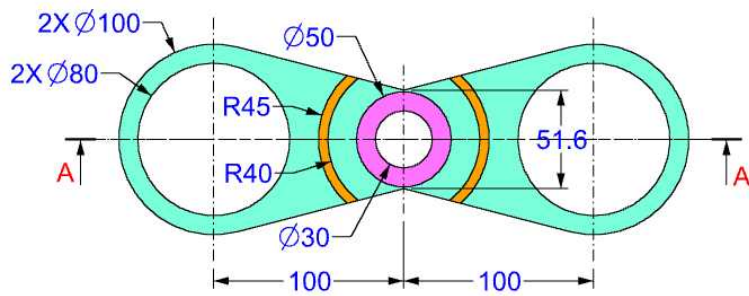
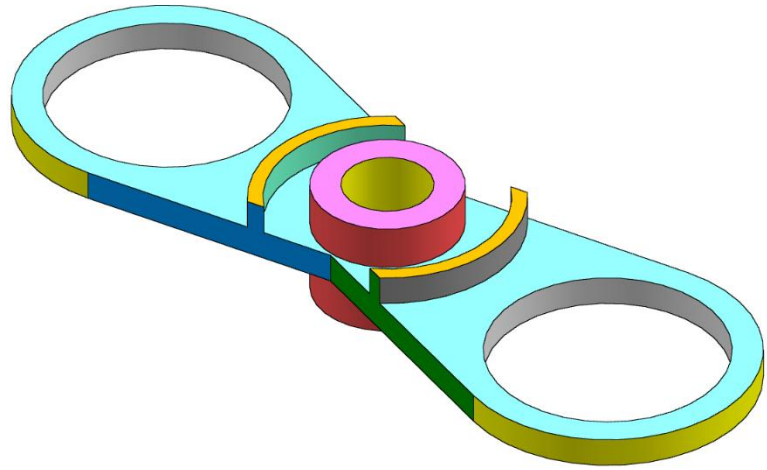
EXERCISE-142

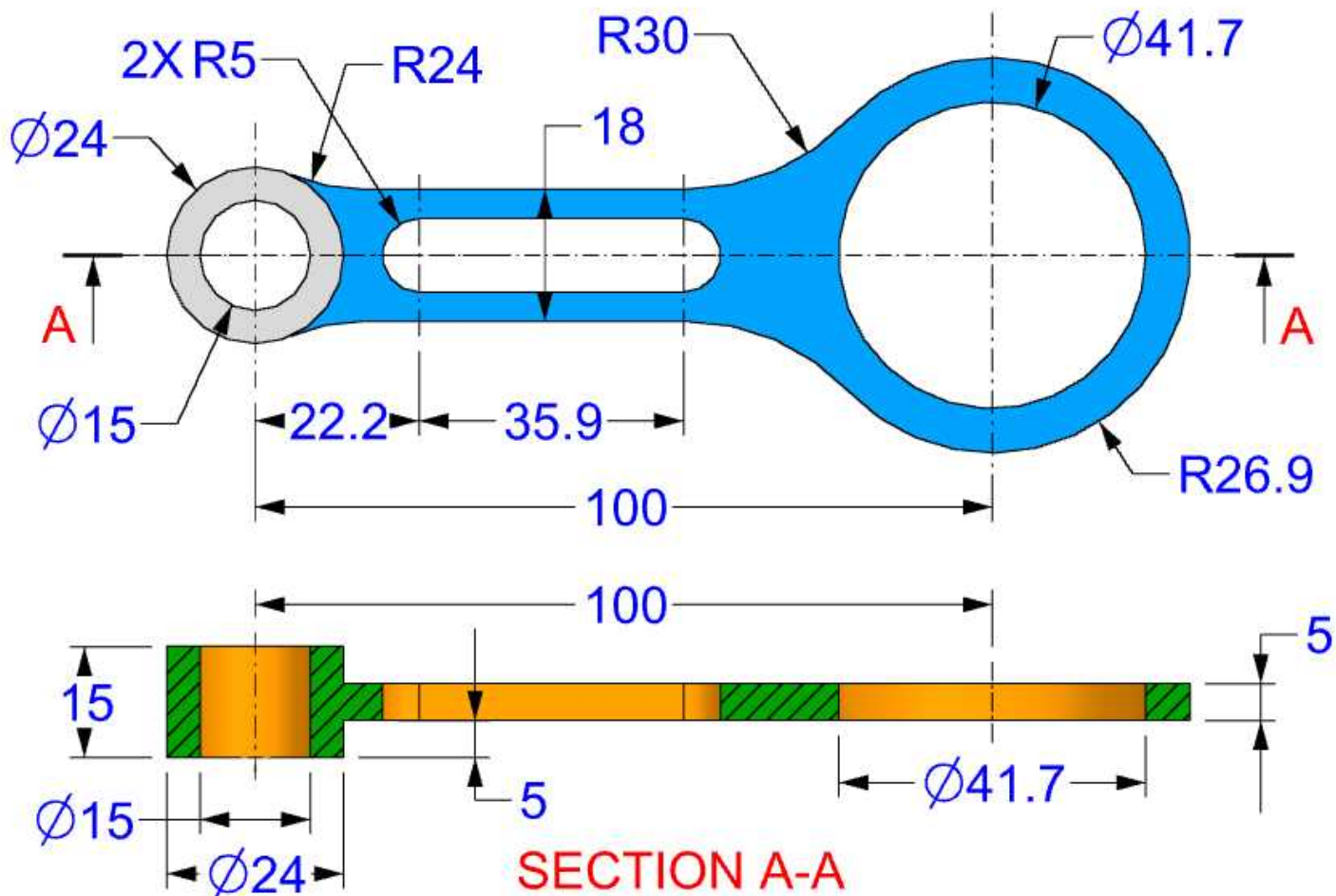
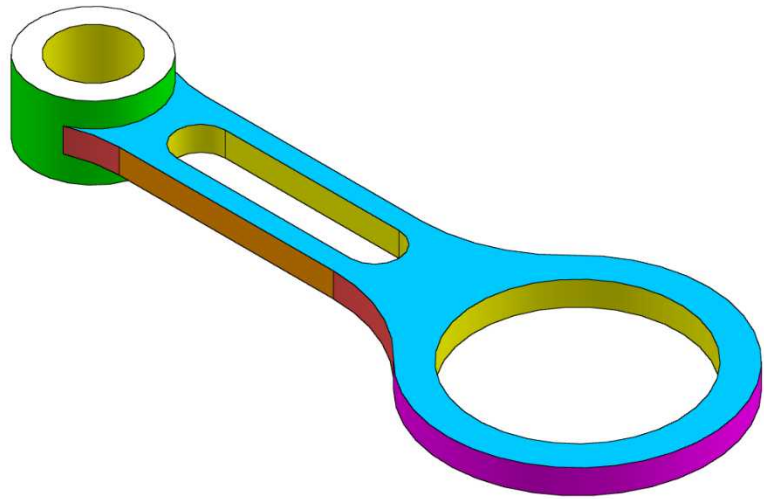
EXERCISE-143

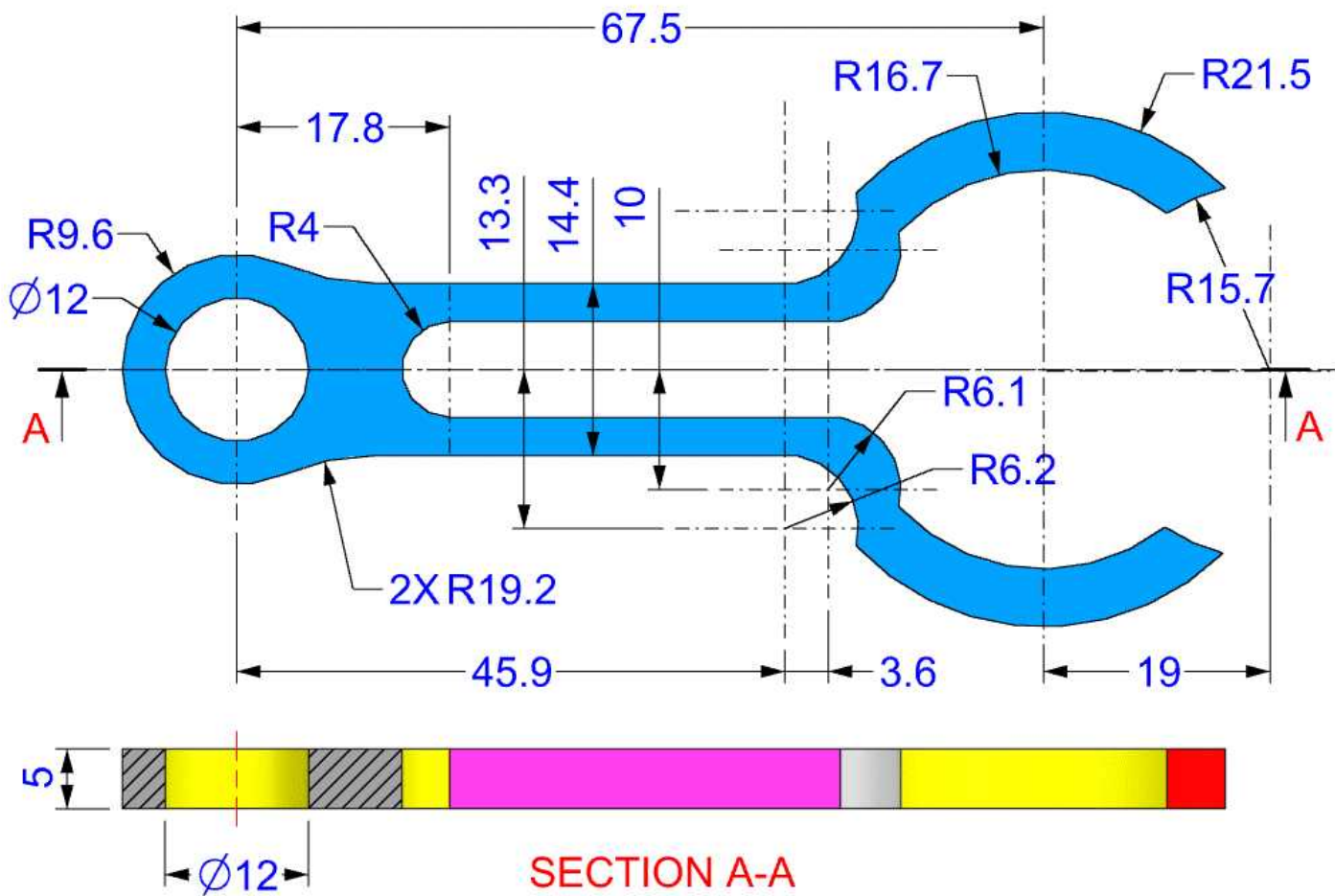
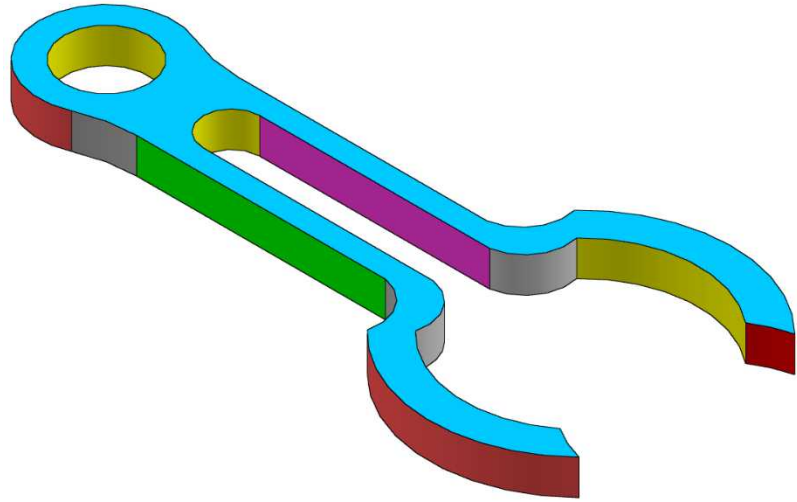


EXERCISE-145

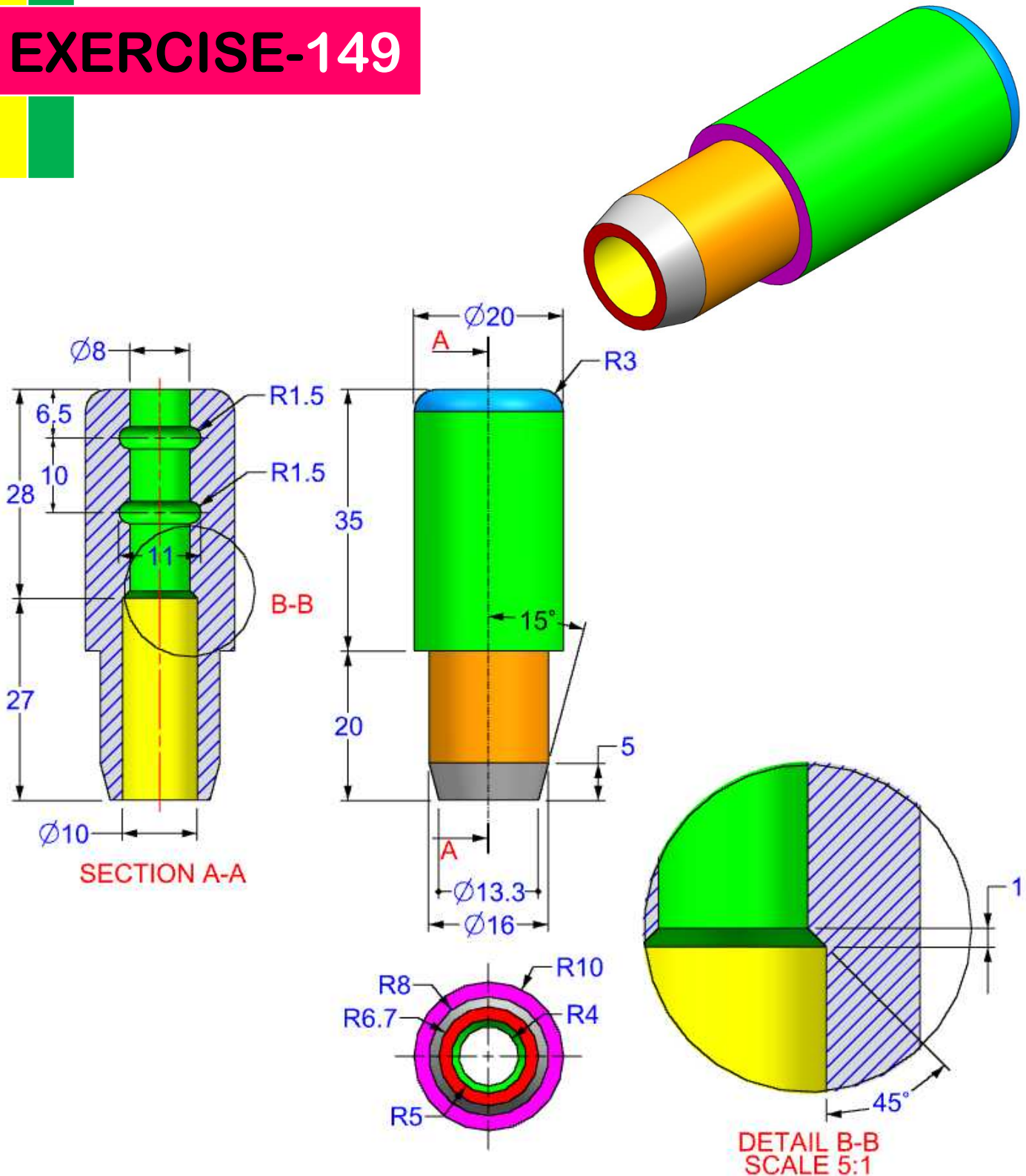
EXERCISE-146

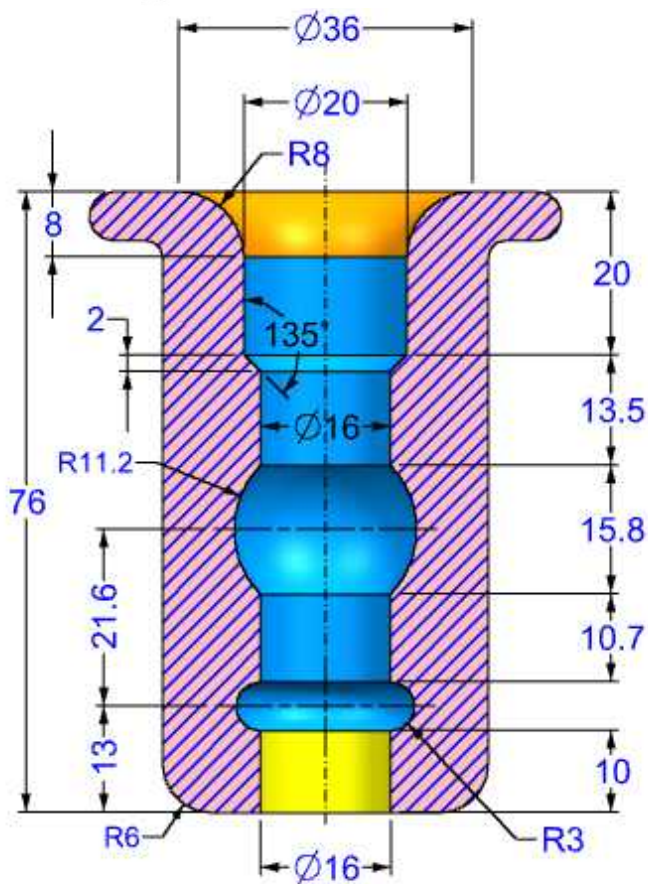
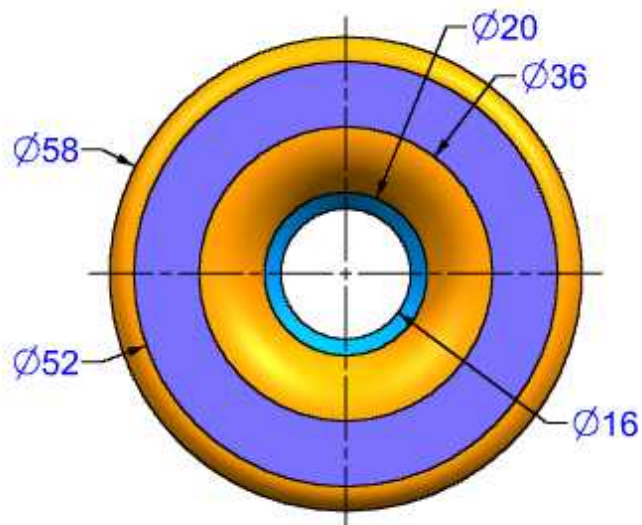
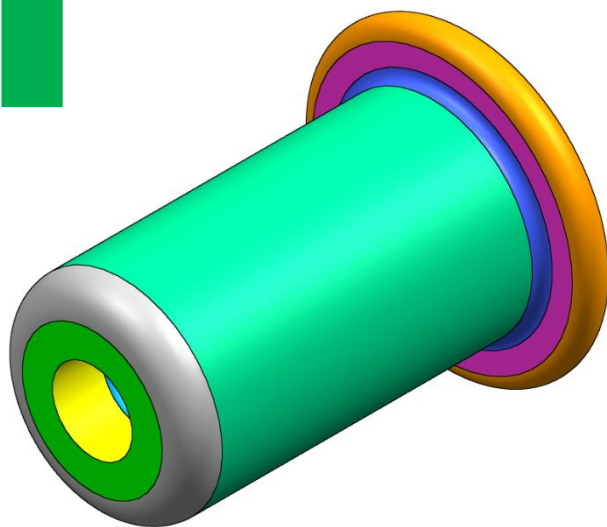
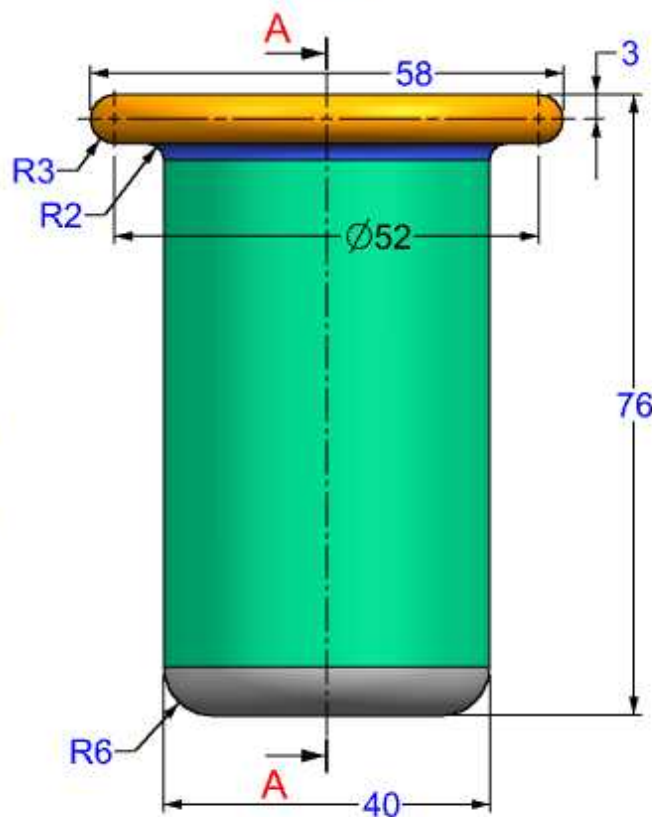


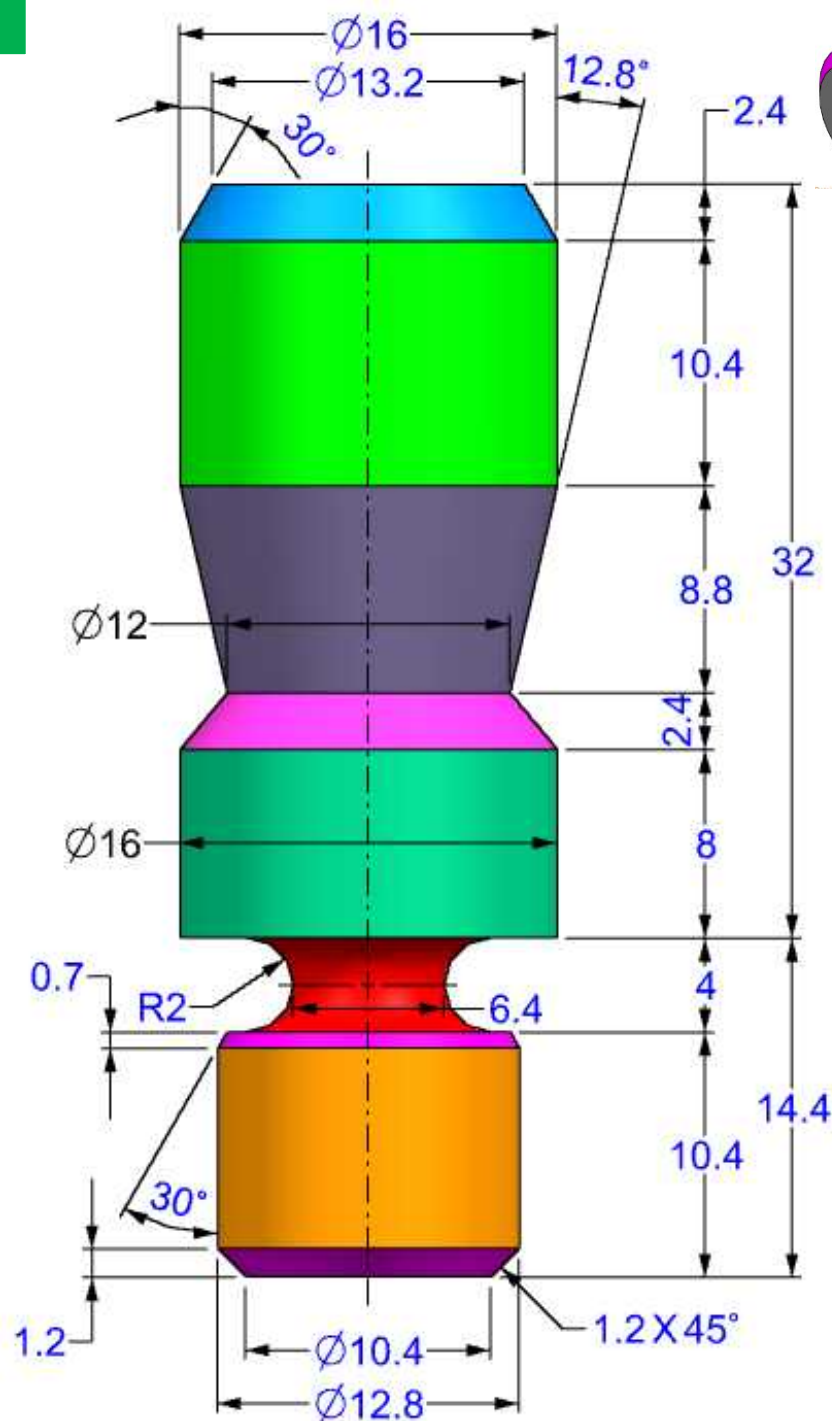
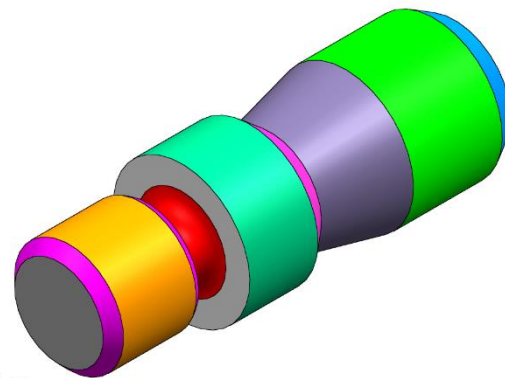
EXERCISE-147

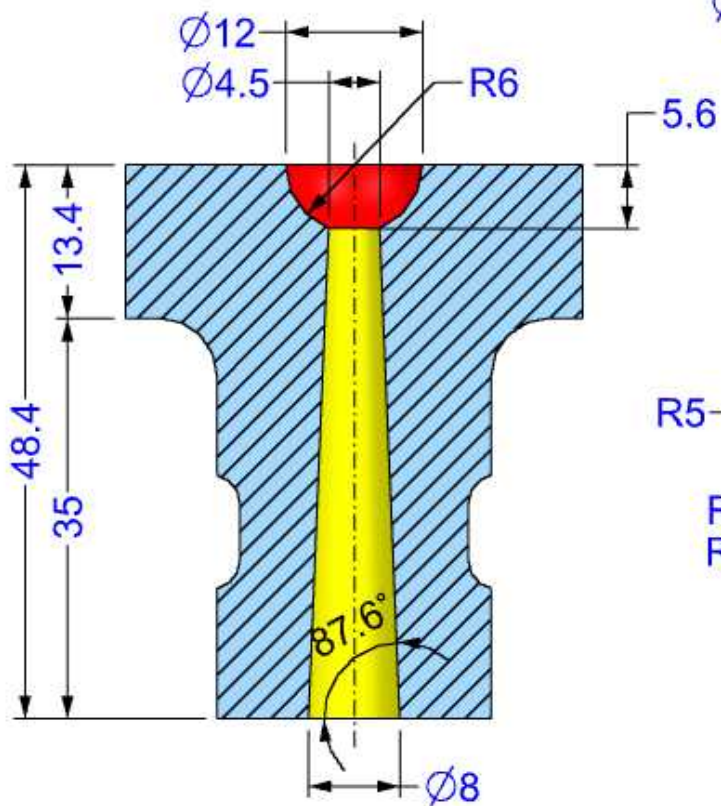
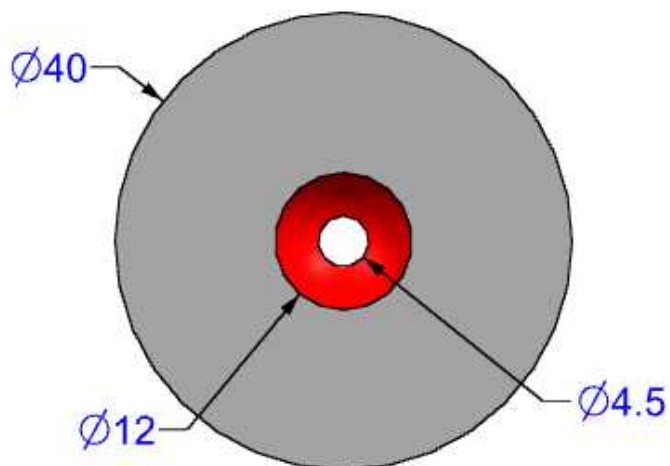
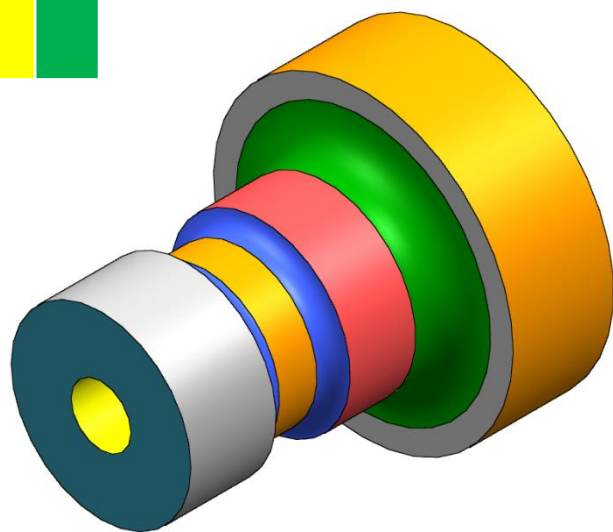
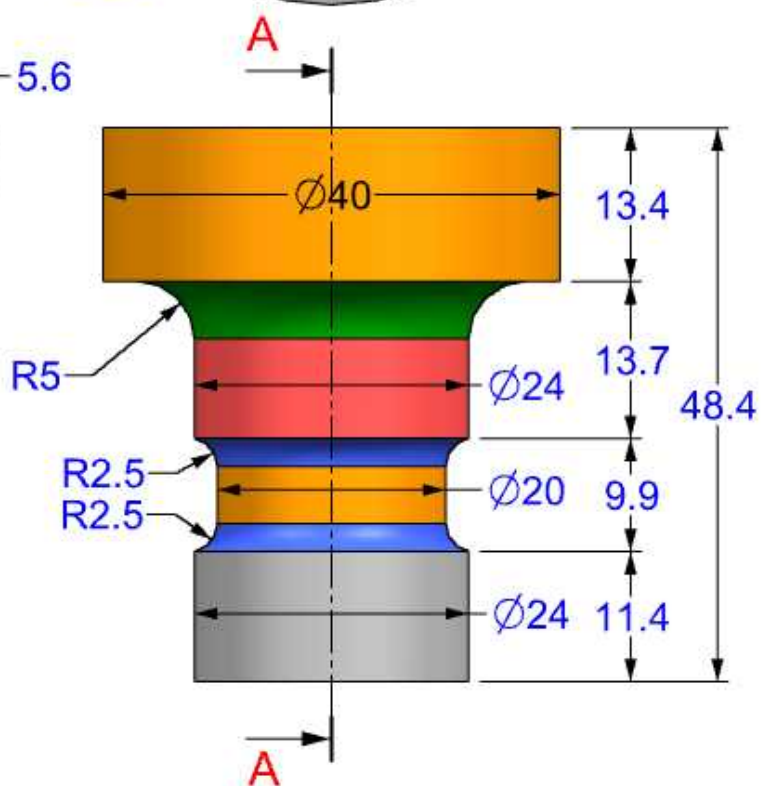
EXERCISE-148

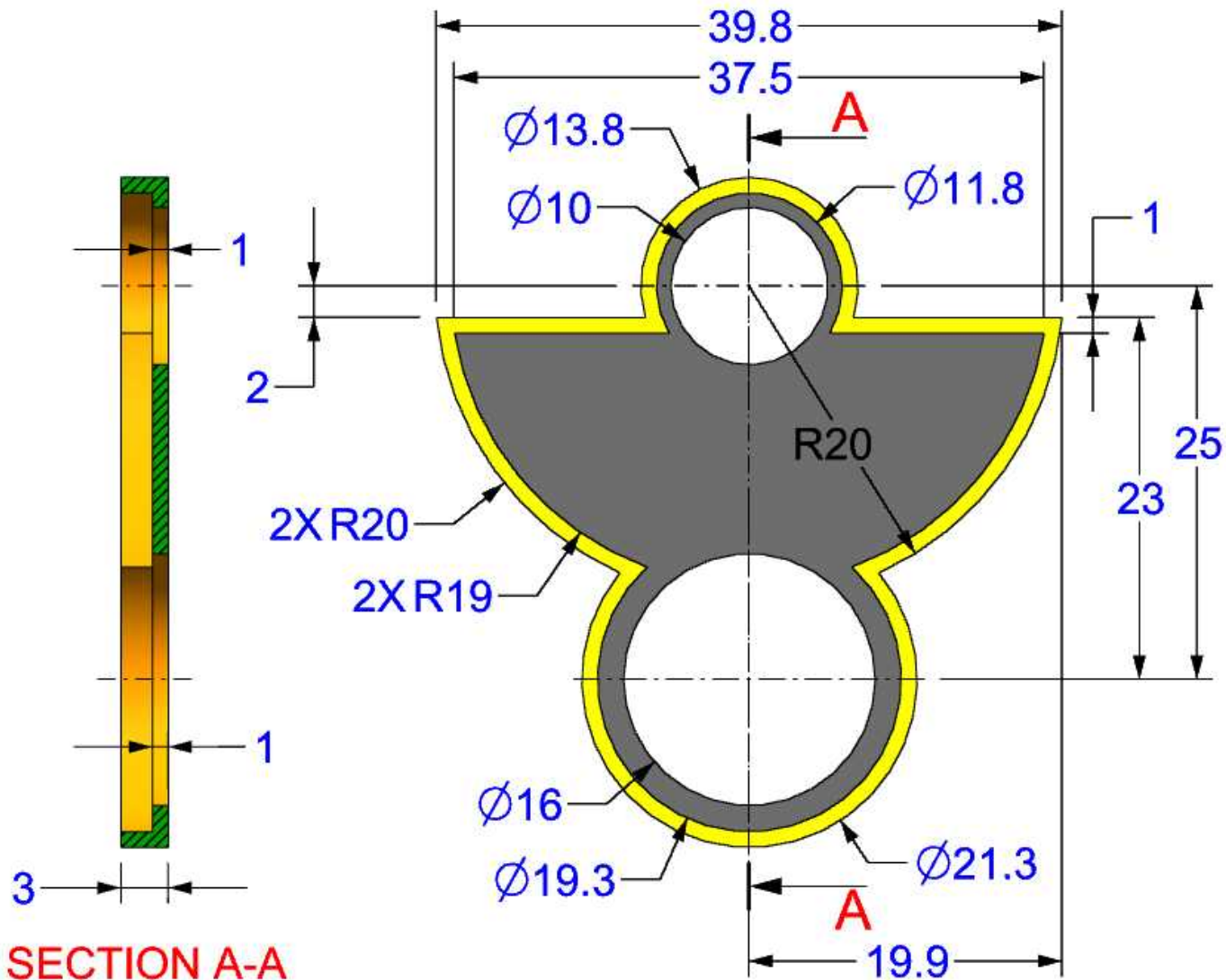
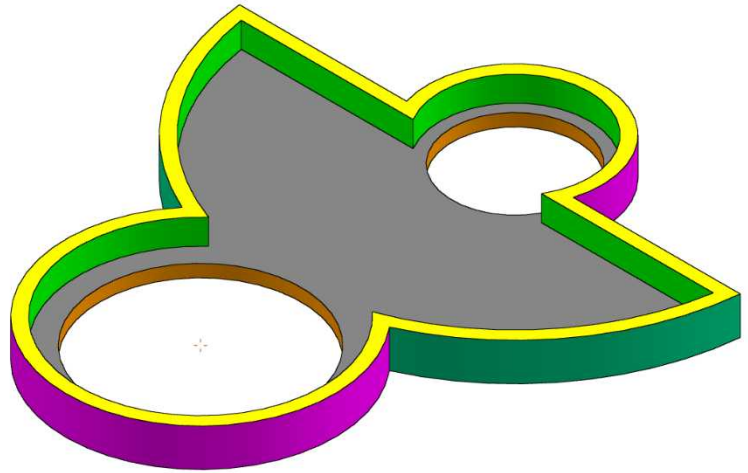
EXERCISE-149



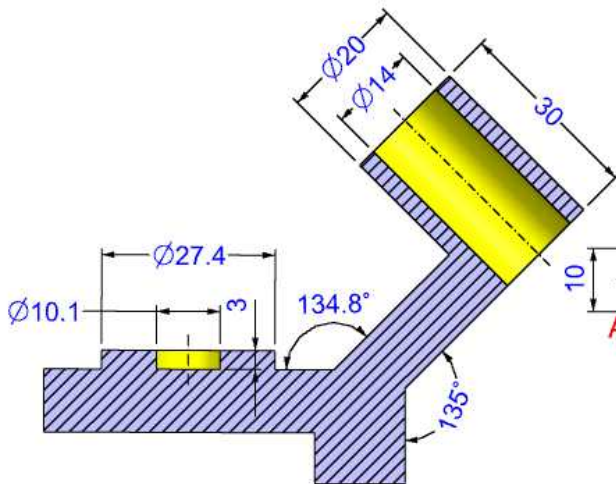
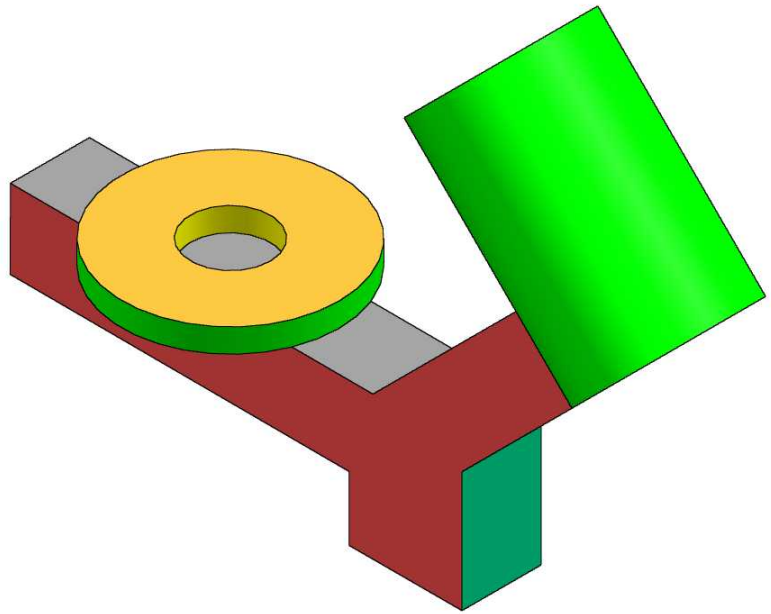
EXERCISE-150**SECTION A-A**

EXERCISE-151

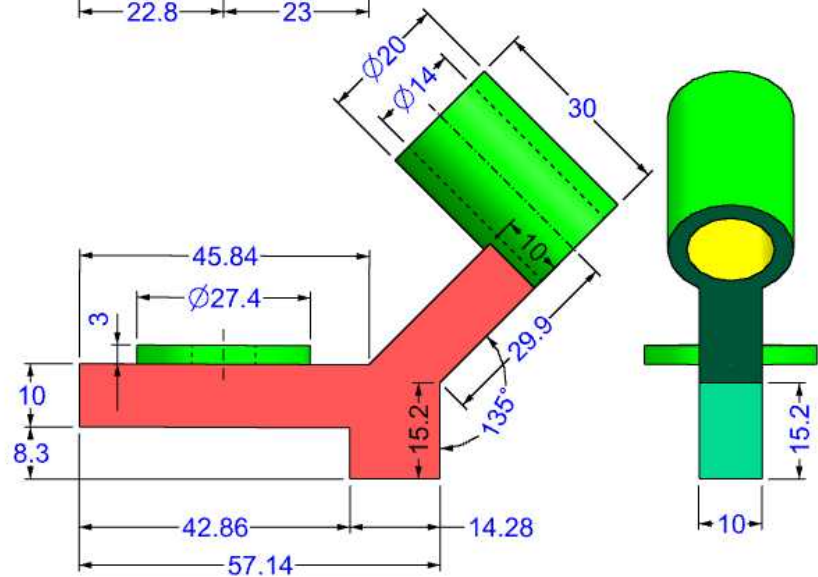
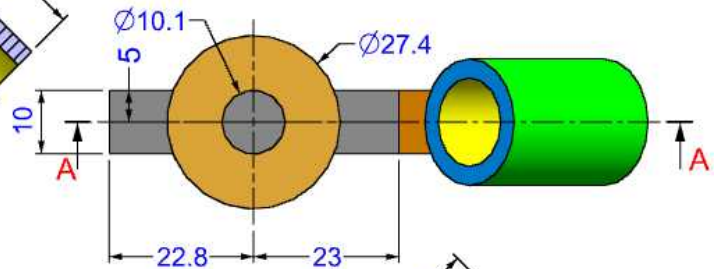
EXERCISE-152**SECTION A-A**

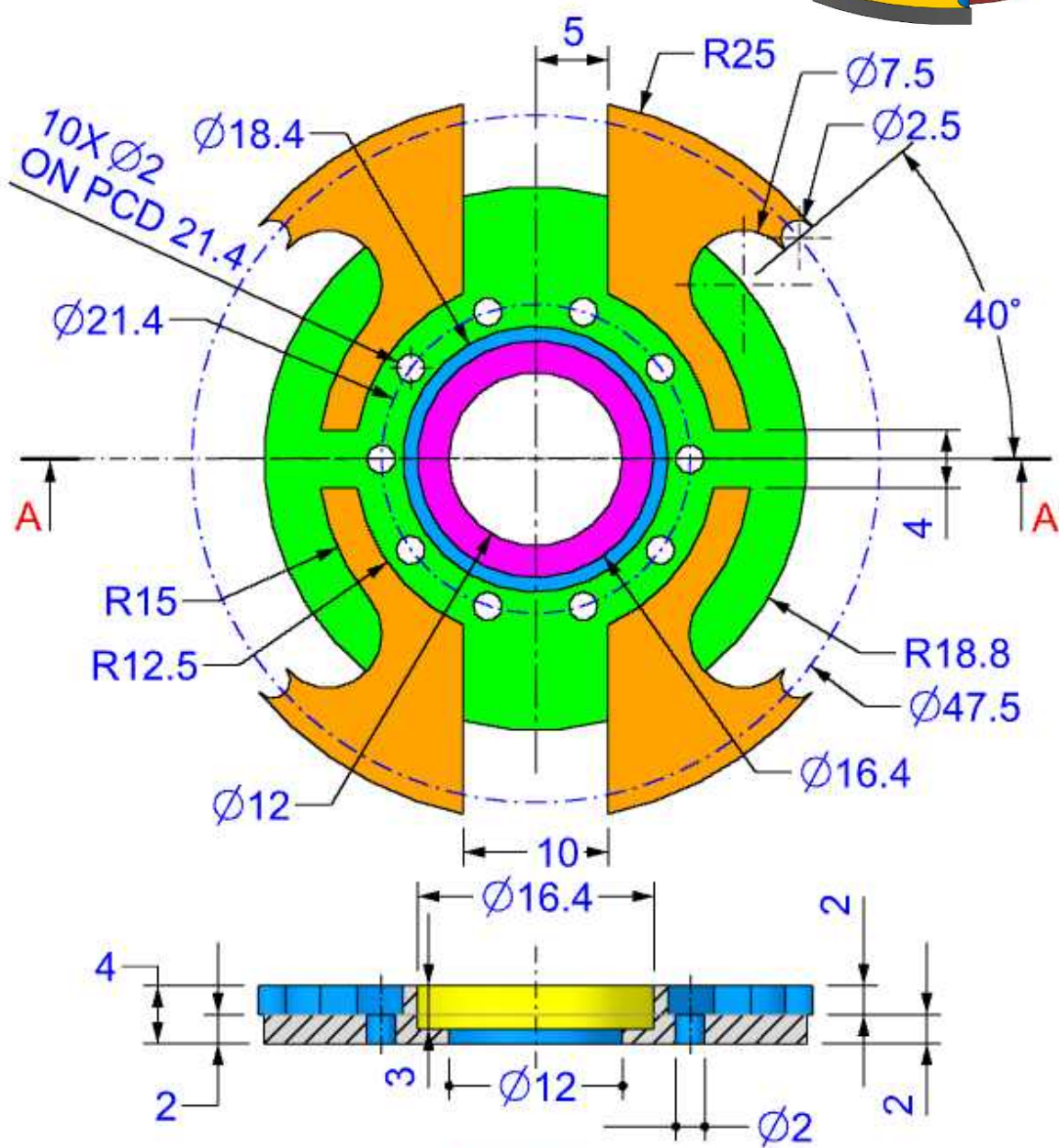
EXERCISE-153

EXERCISE-154

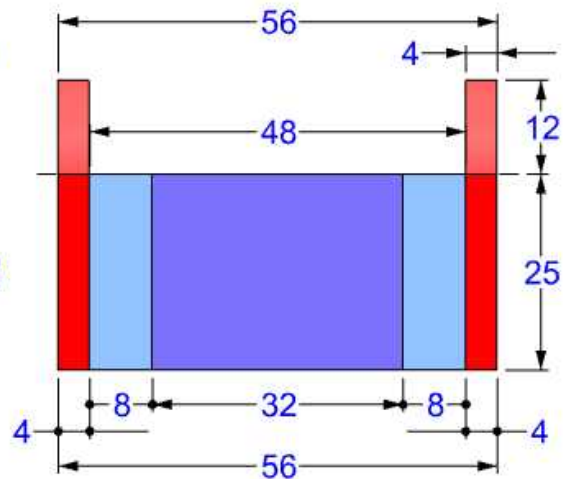
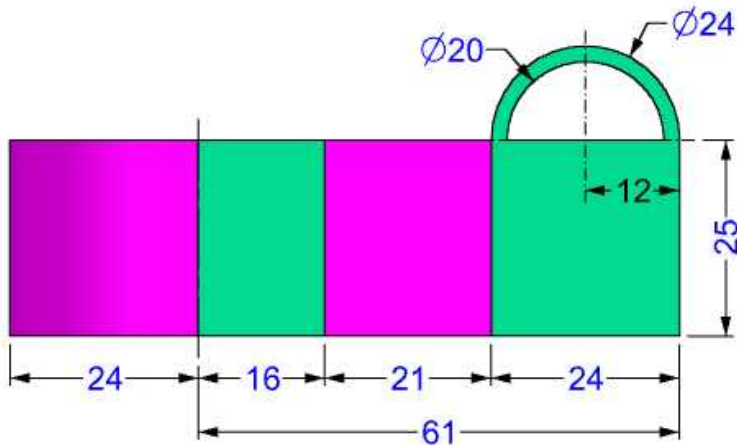
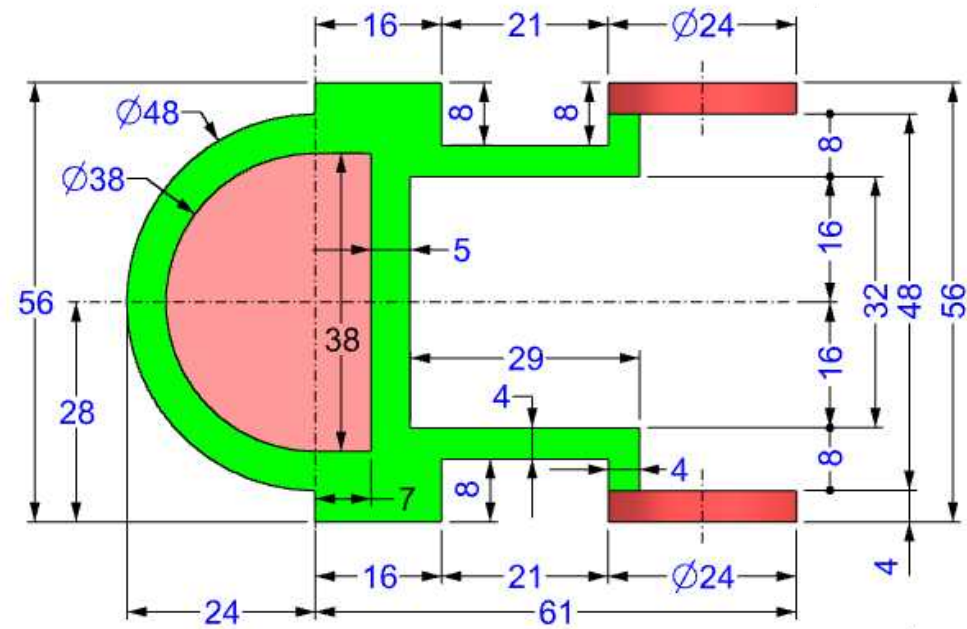
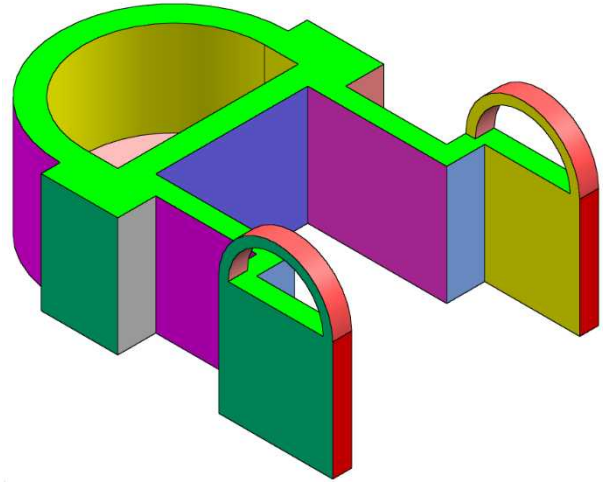


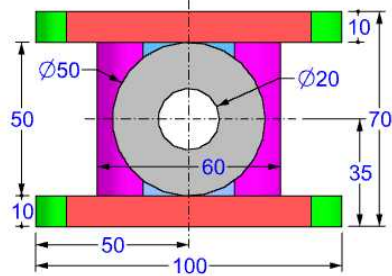
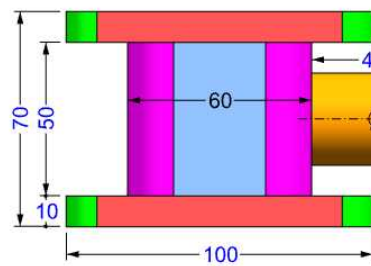
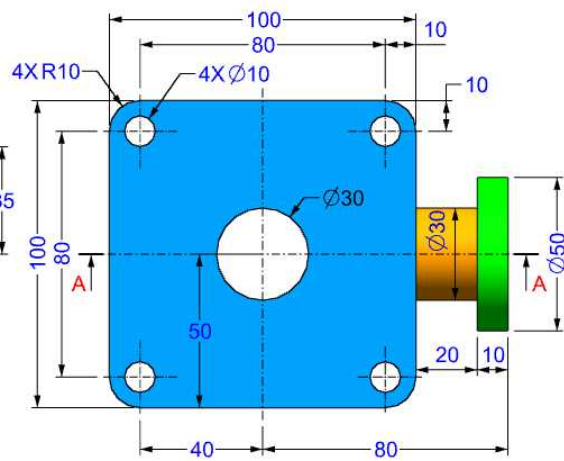
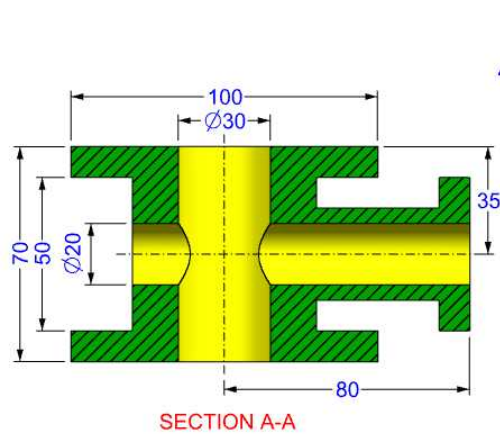
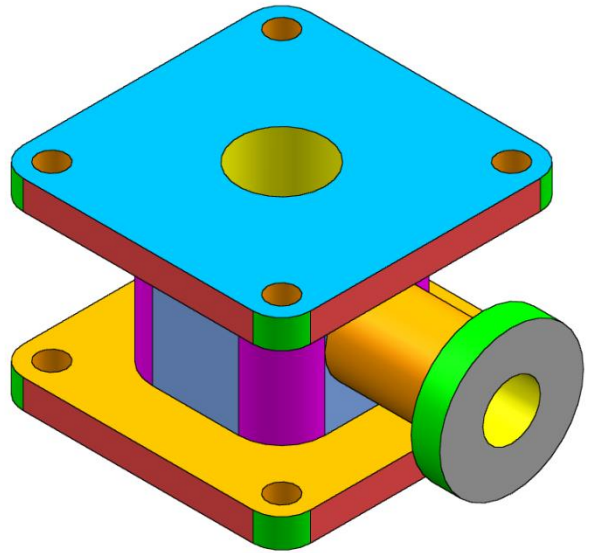
SECTION A-A



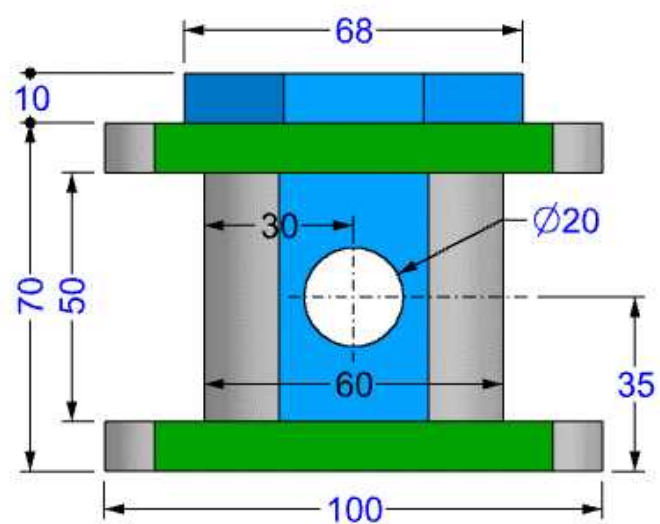
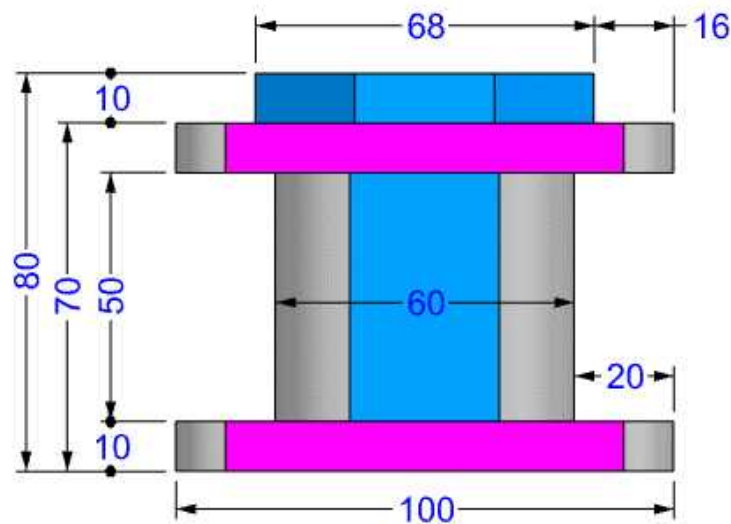
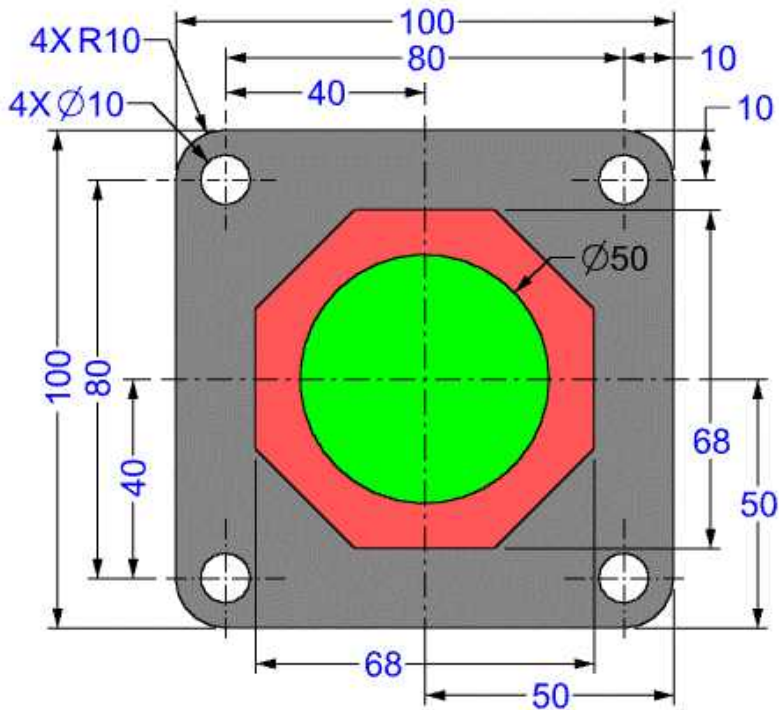
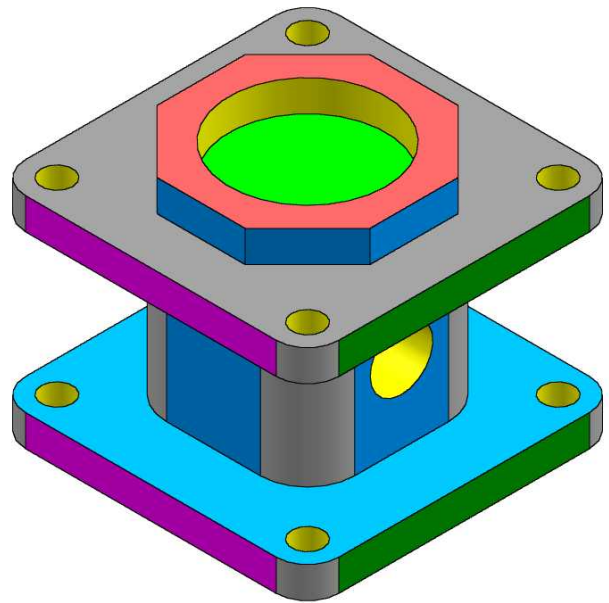


SECTION A-A

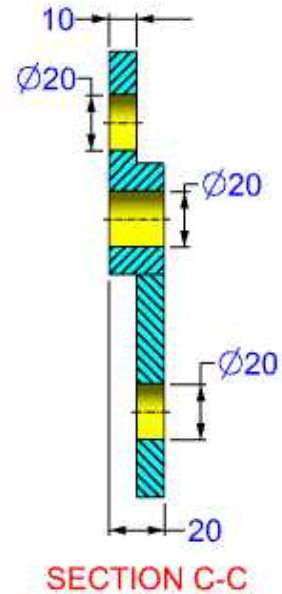
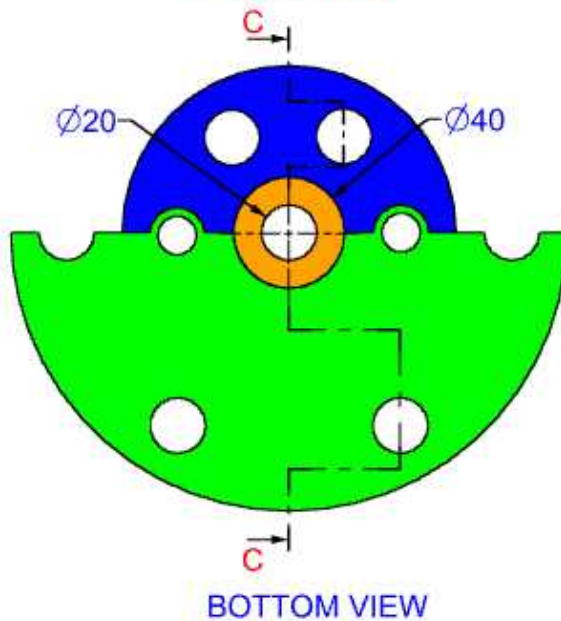
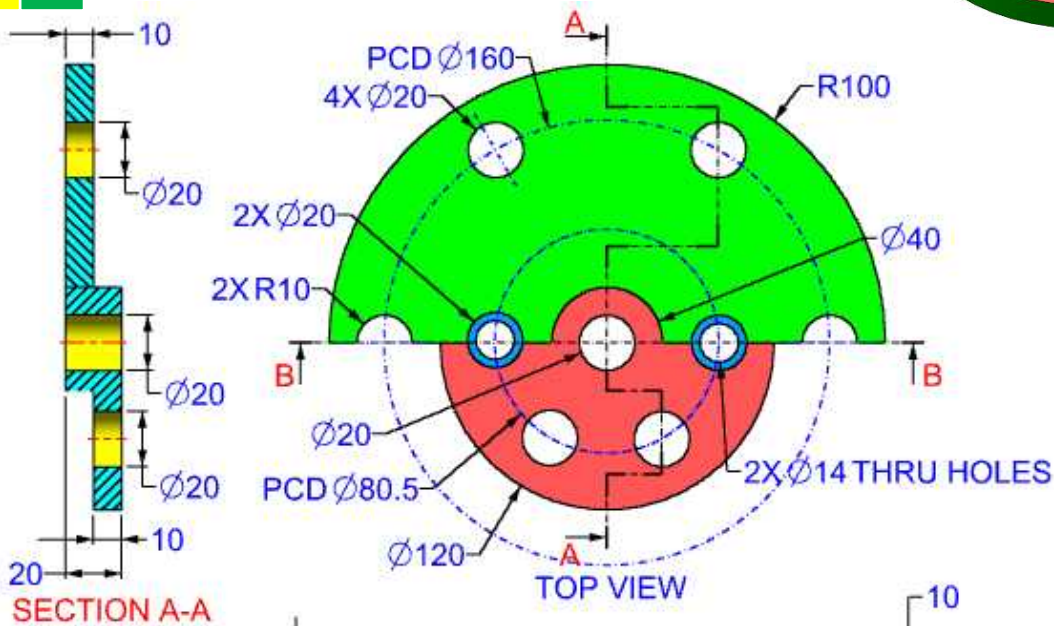
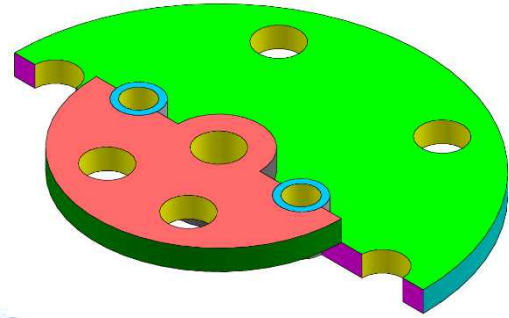
EXERCISE-157

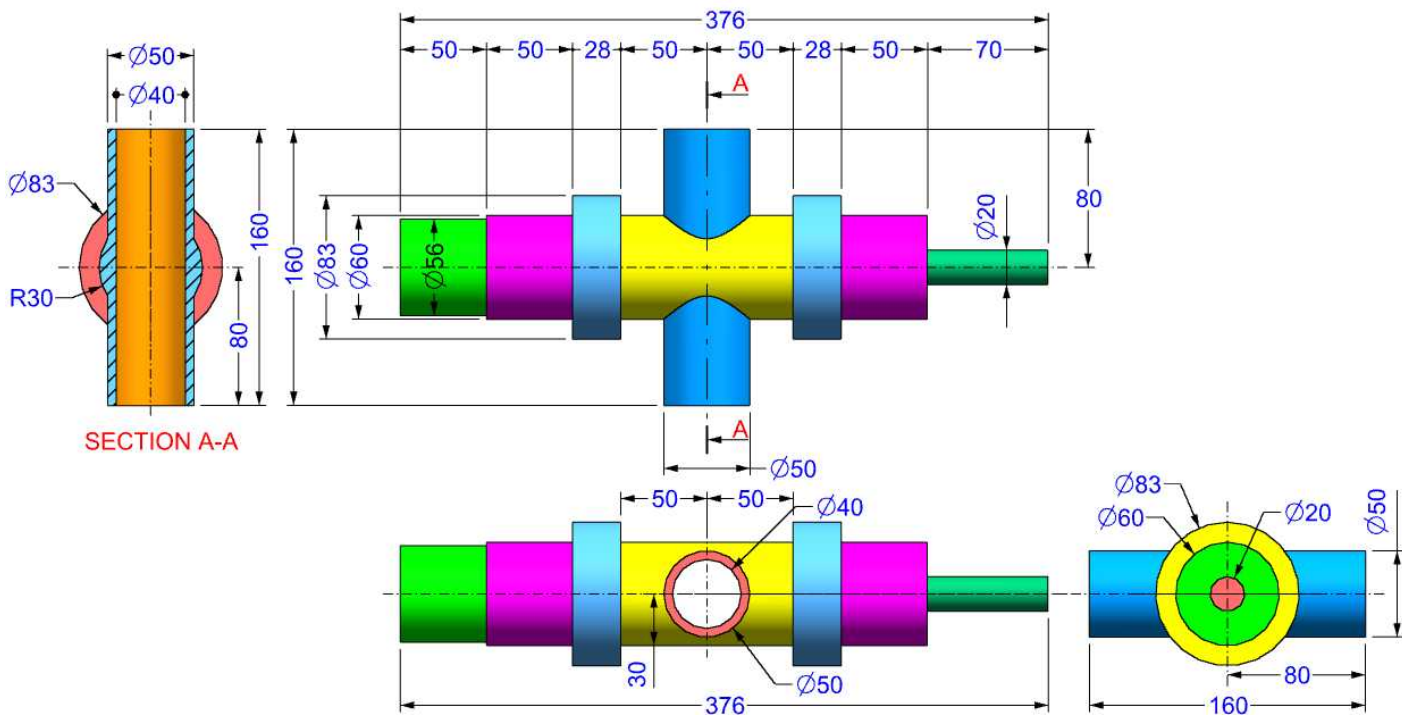
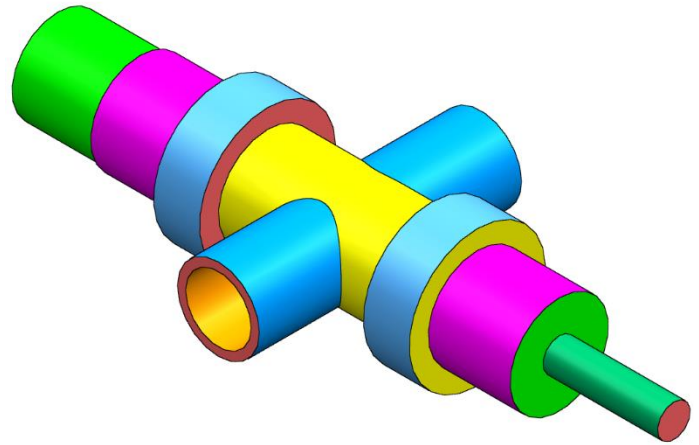
EXERCISE-158

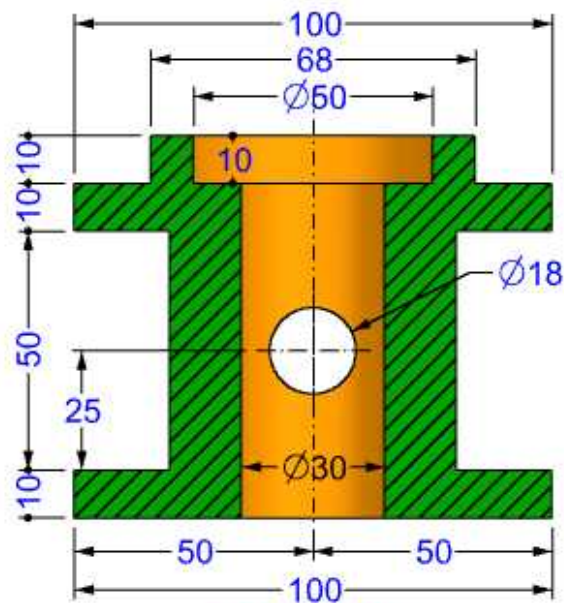
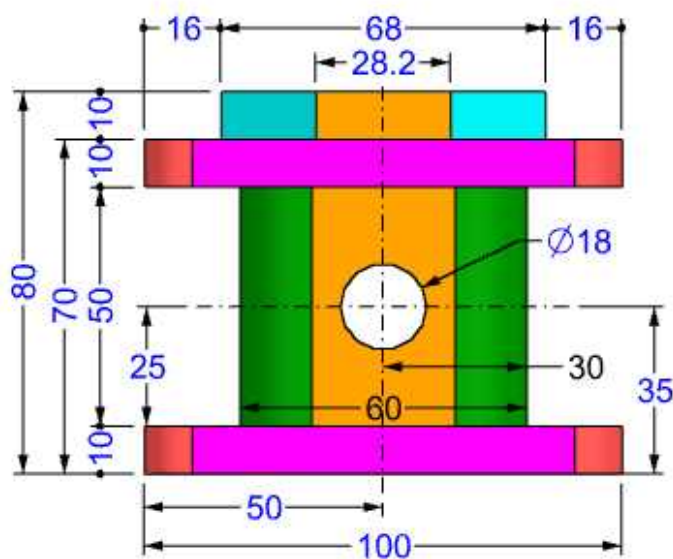
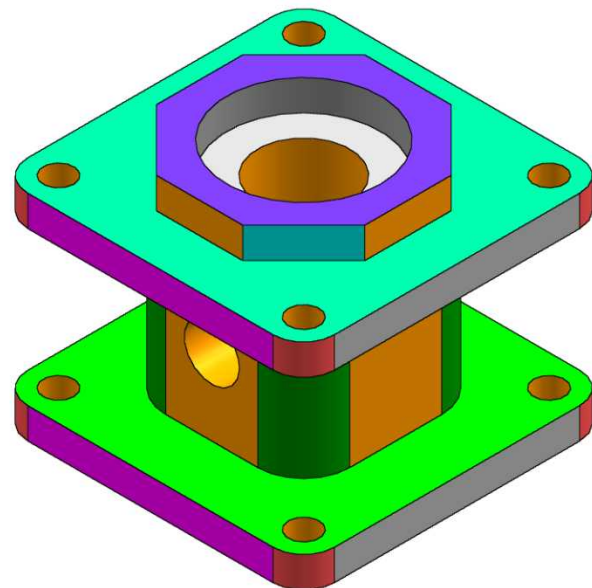
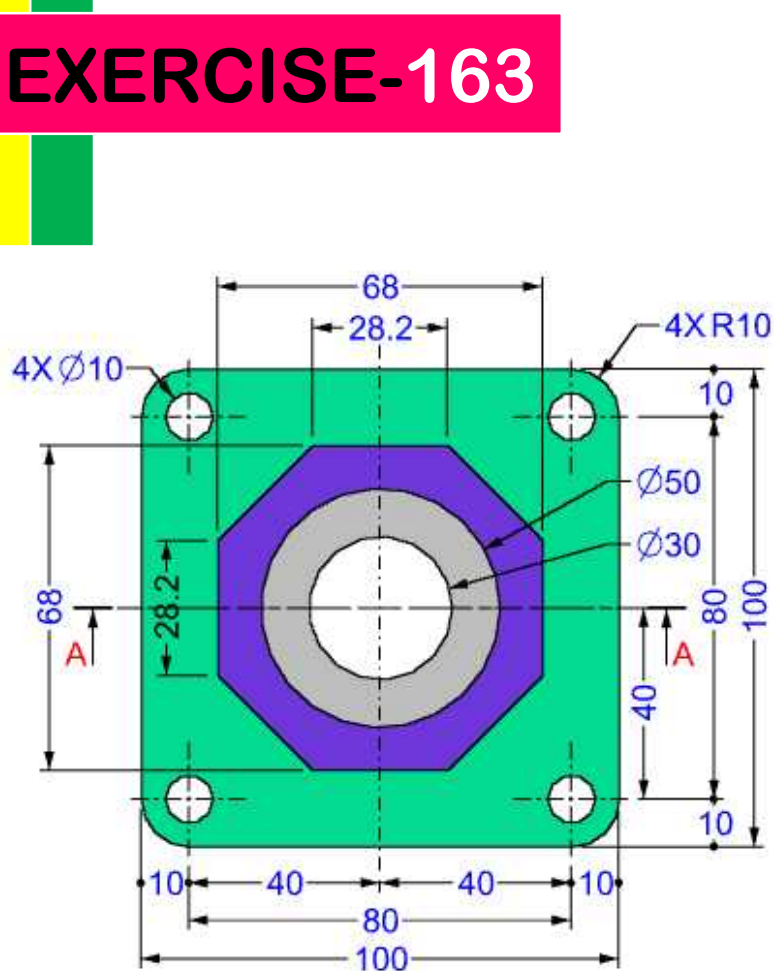
EXERCISE-159



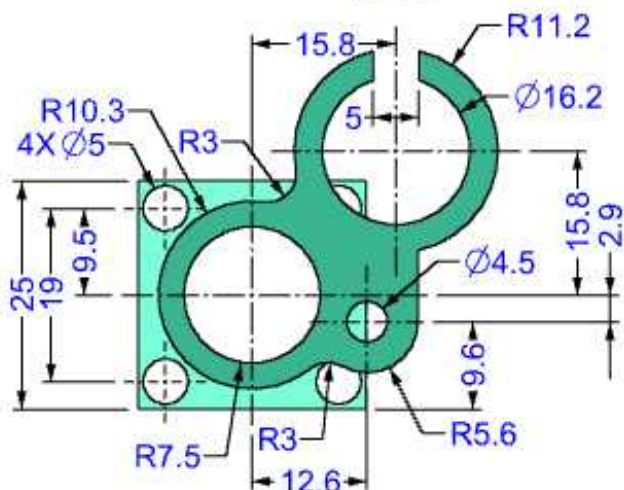
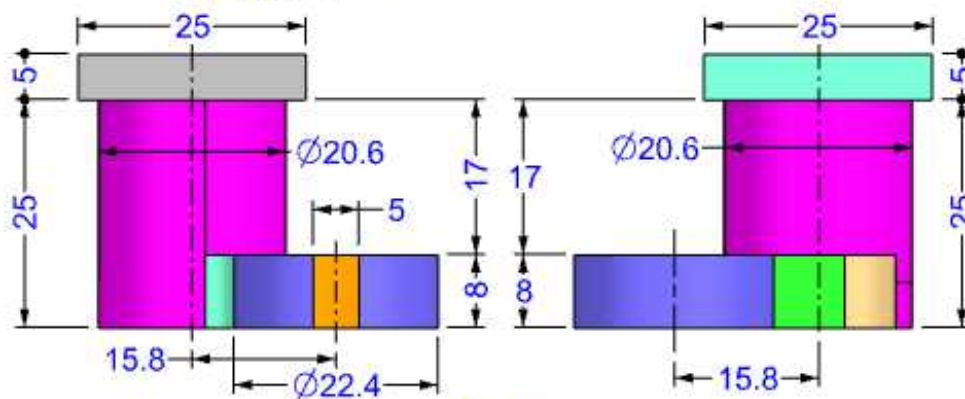
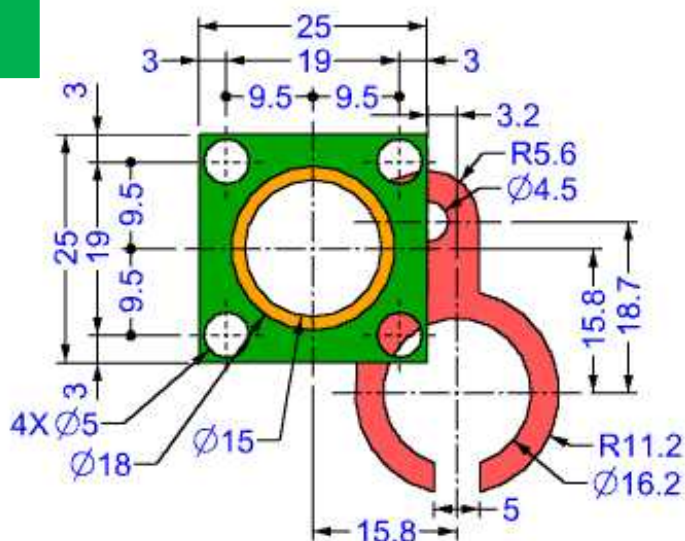
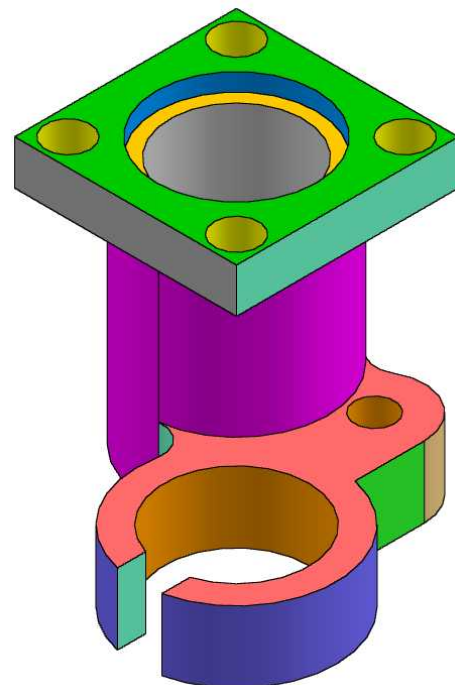
EXERCISE-160

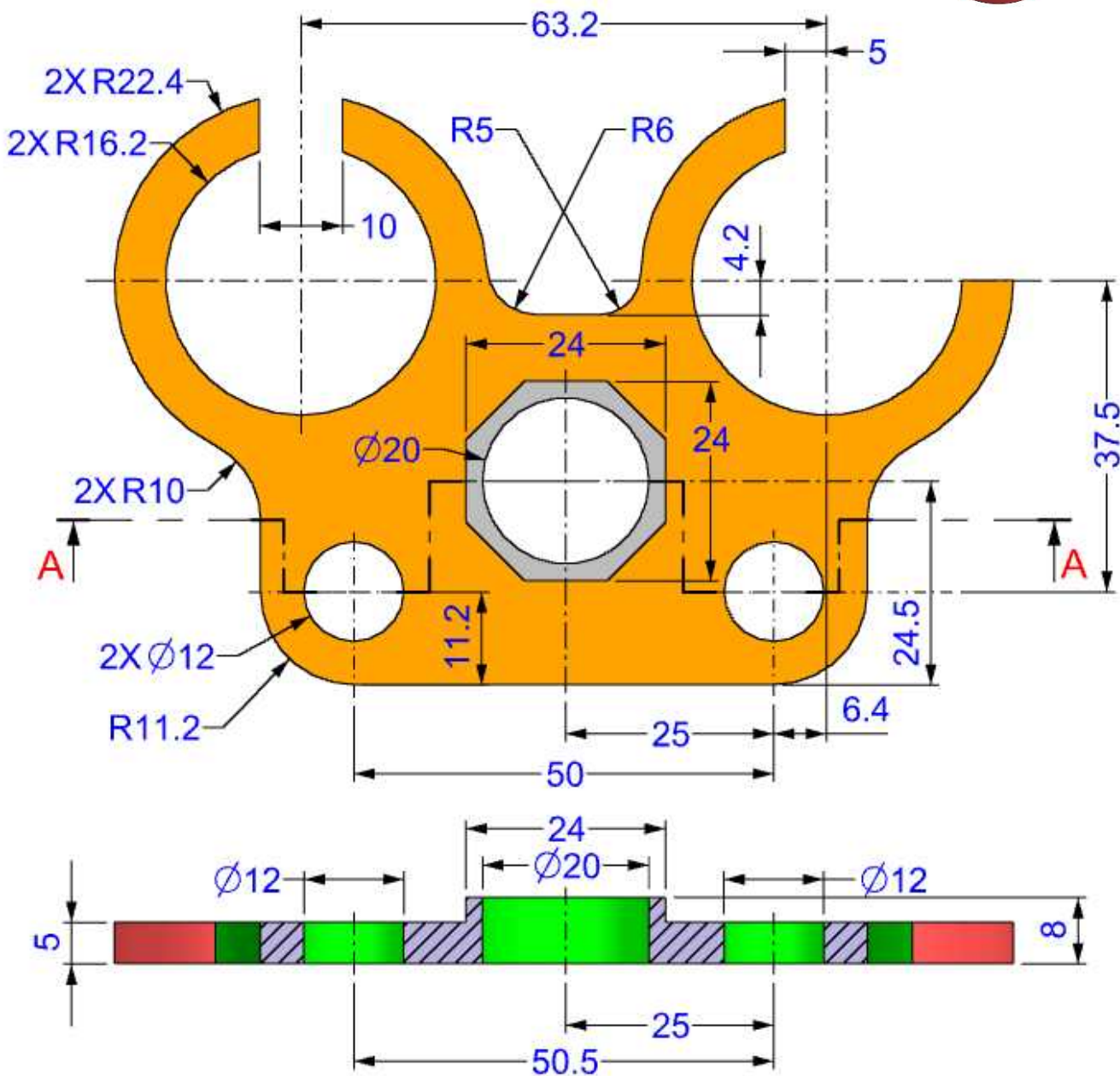
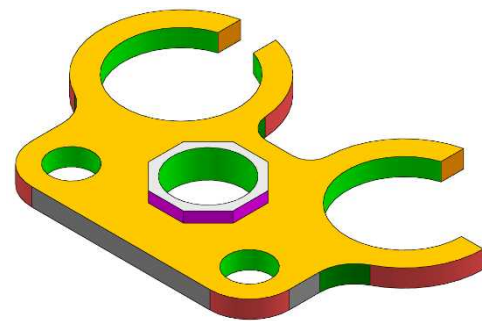


EXERCISE-162

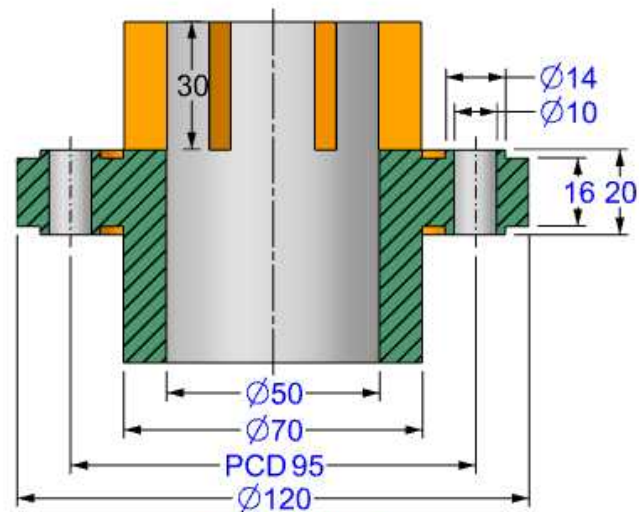
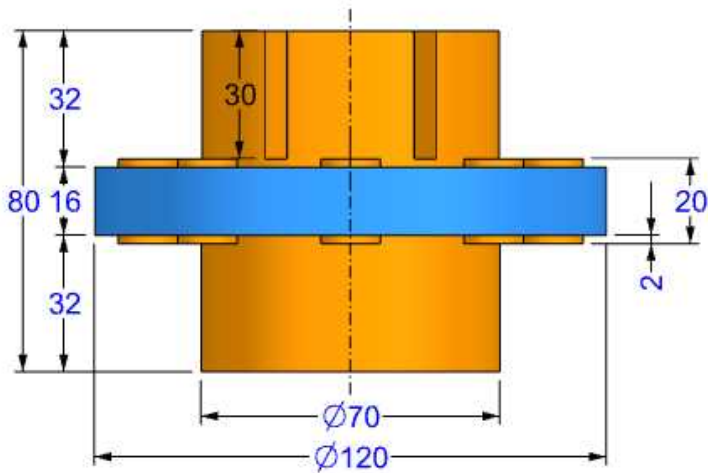
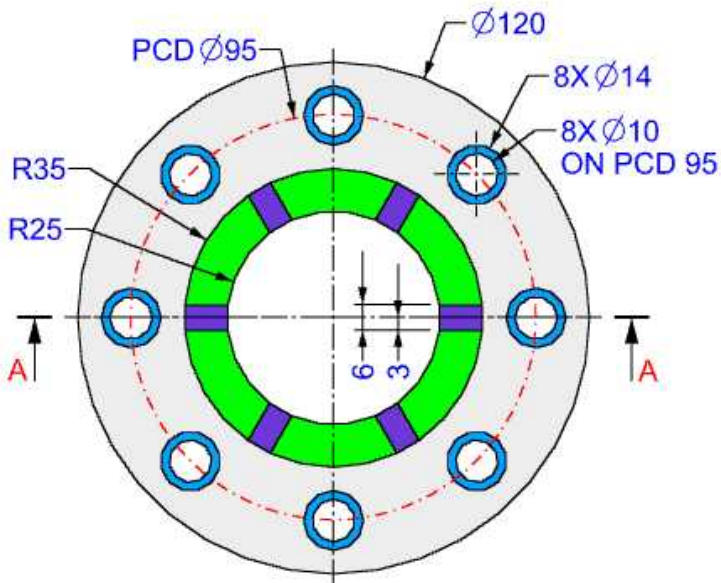
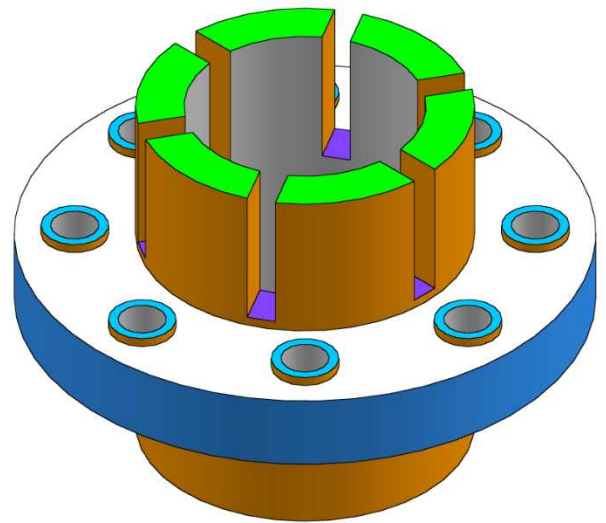
EXERCISE-163**SECTION A-A**

EXERCISE-164

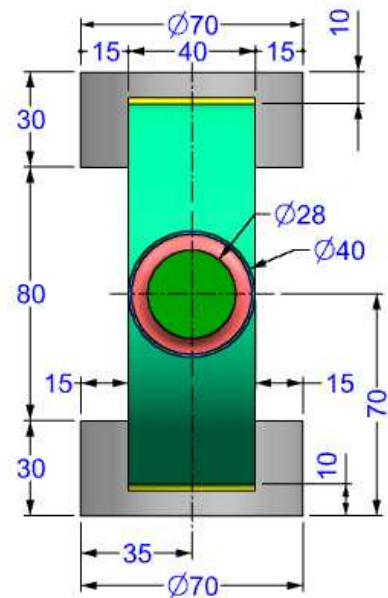
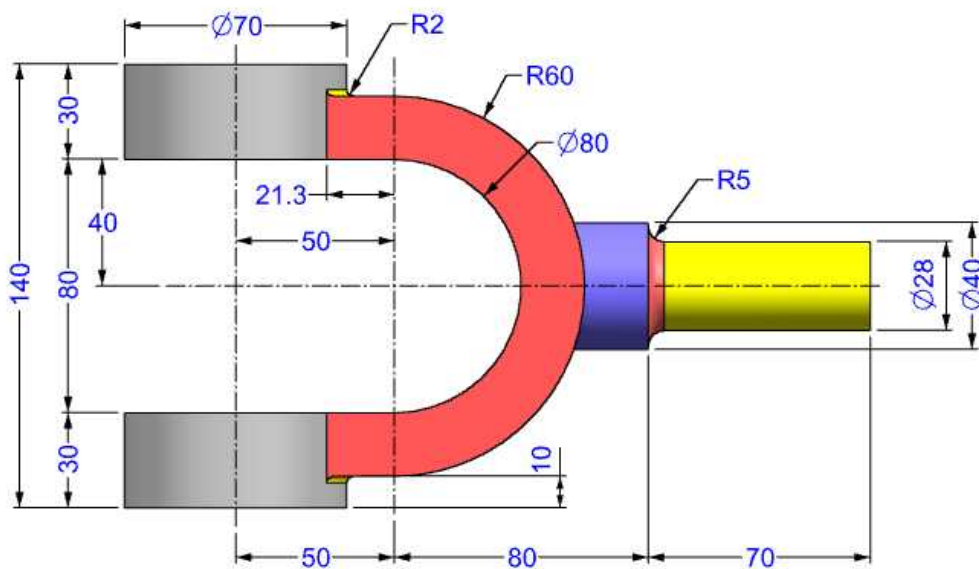
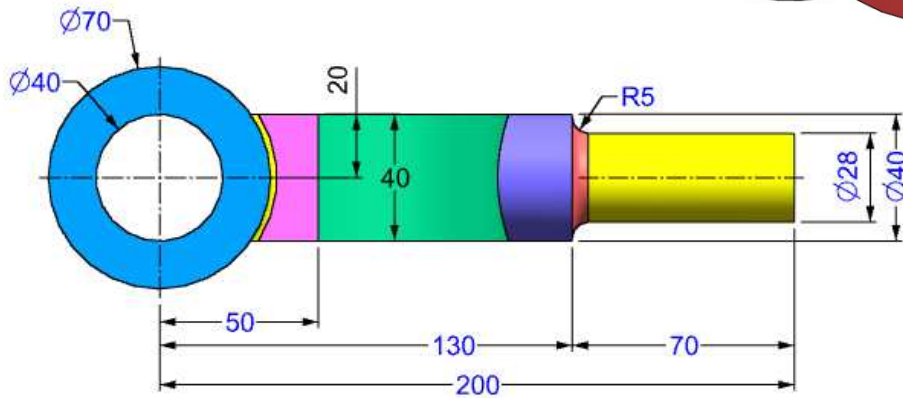
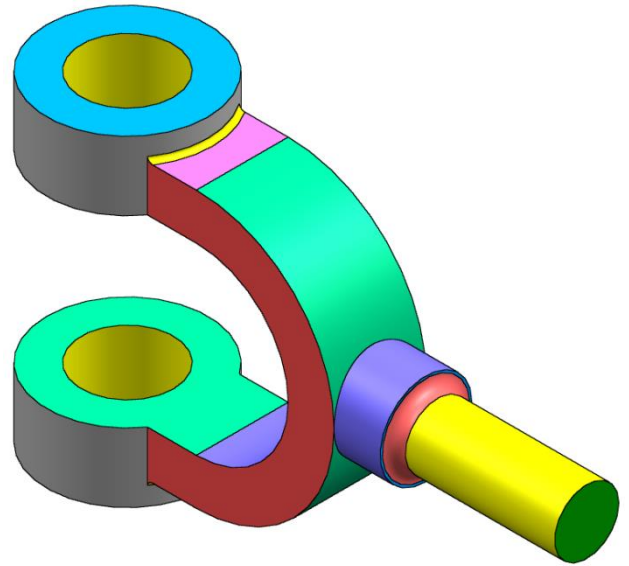


EXERCISE-165**SECTION A-A**

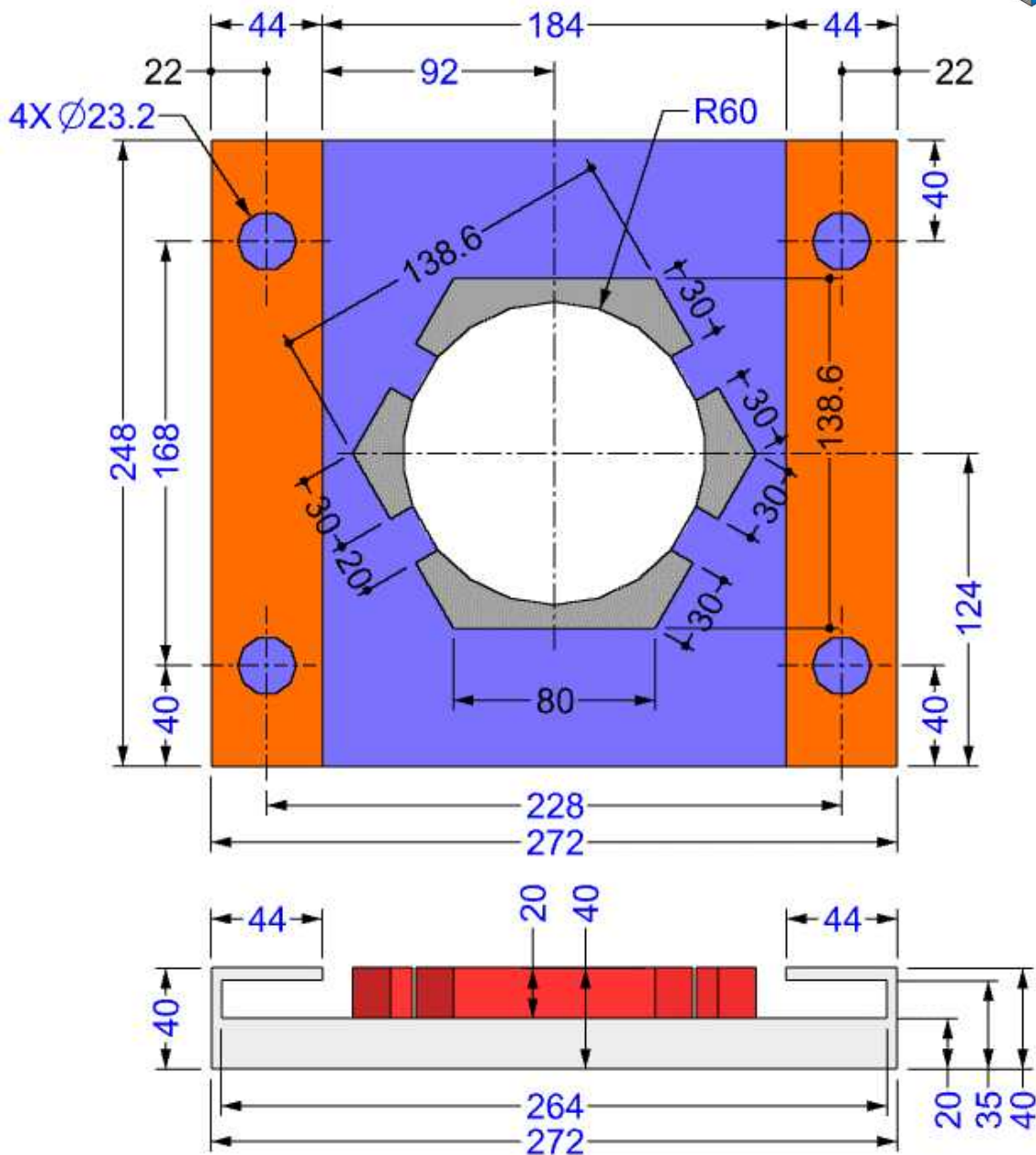
EXERCISE-166



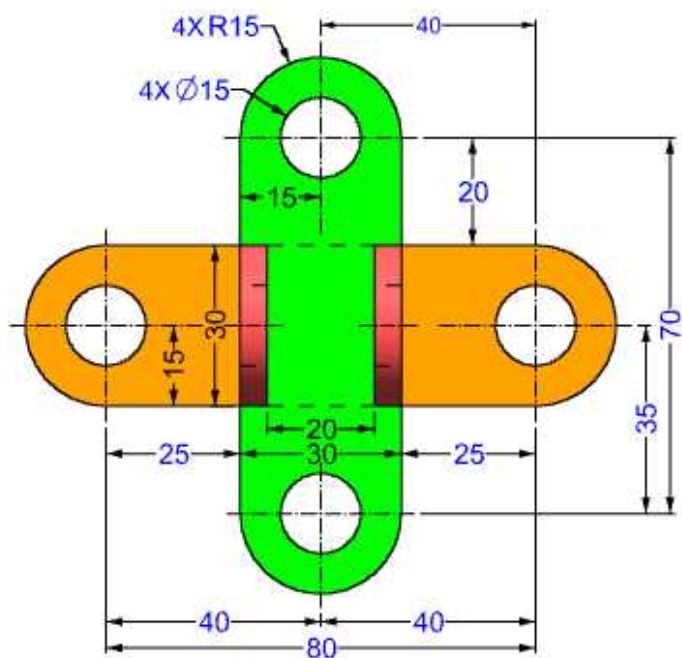
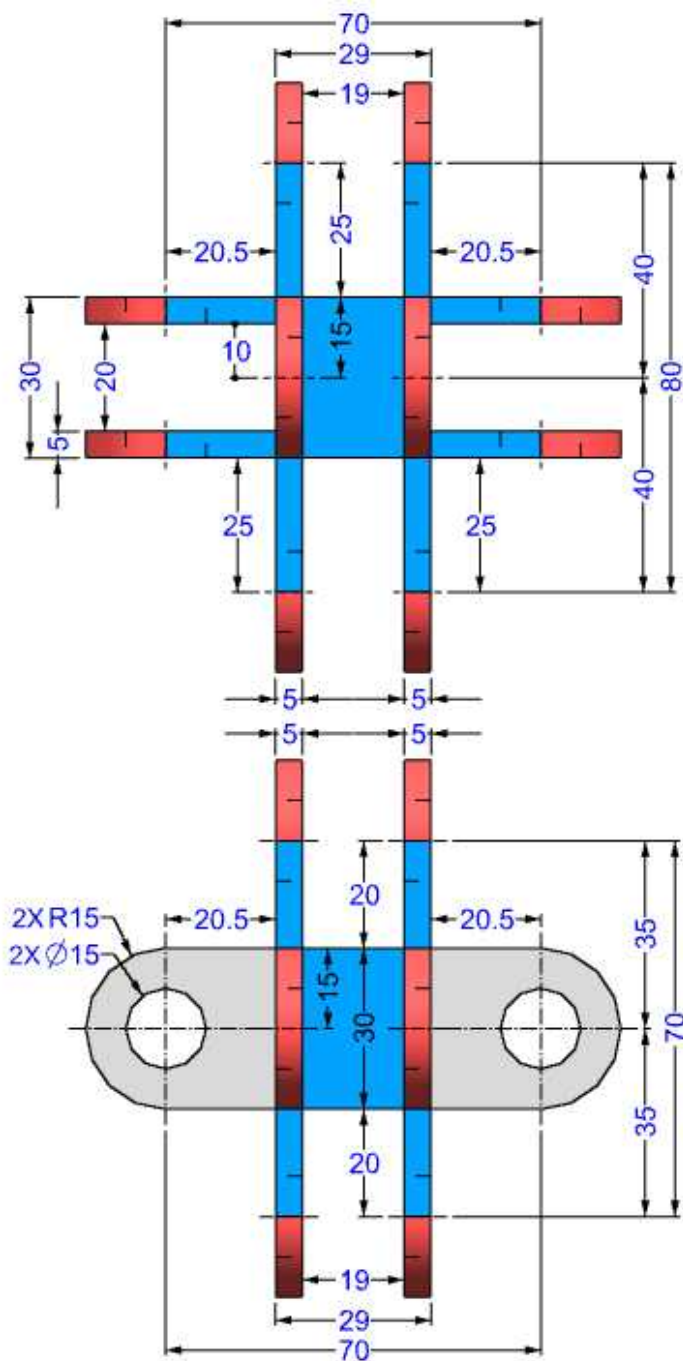
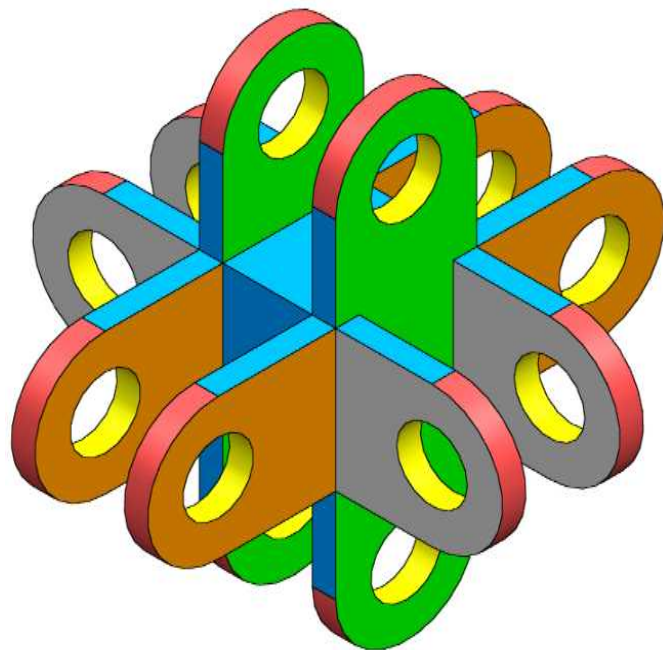
SECTION A-A

EXERCISE-167

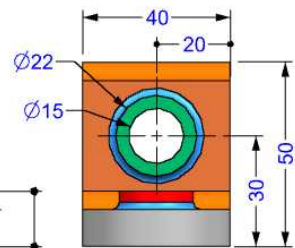
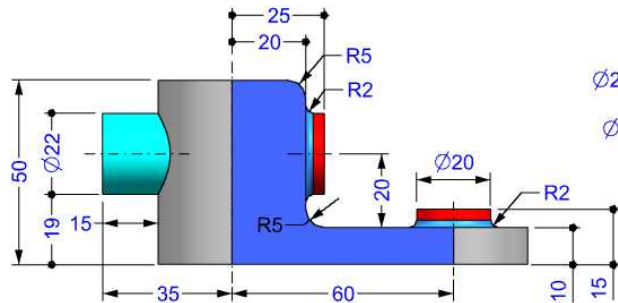
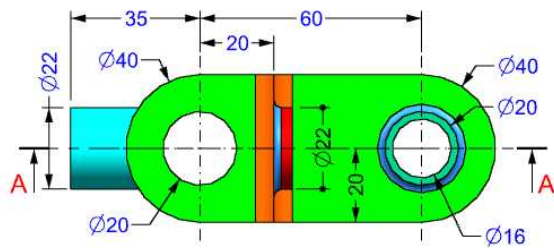
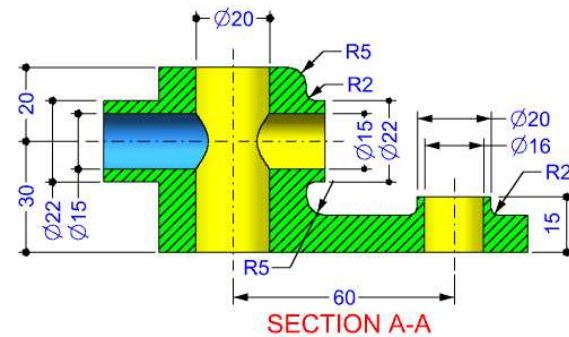
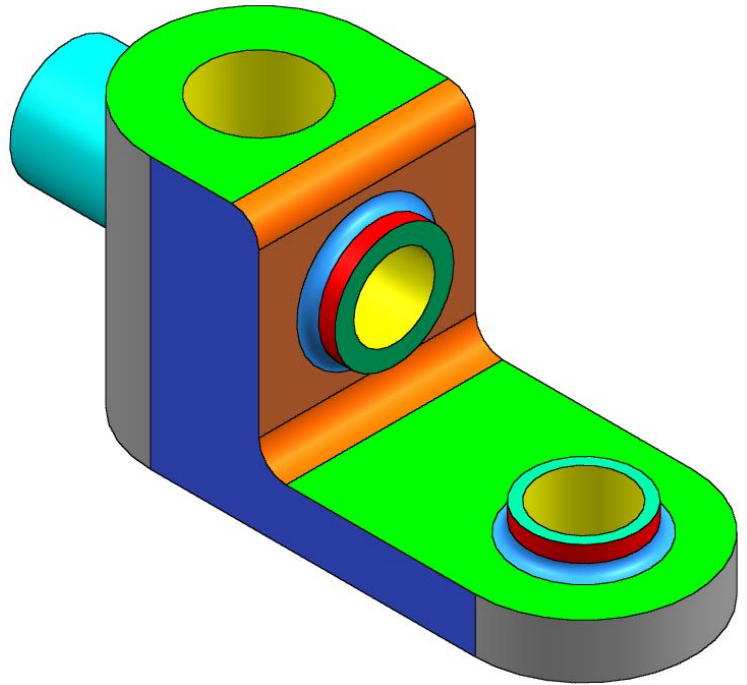
A 3D perspective view of a mechanical assembly. It features a central green ring with a white inner bore, mounted on a light blue base plate. Two orange rectangular plates, each with a circular hole, are positioned on top of the base plate, flanking the central ring. The base plate has a grey underside.



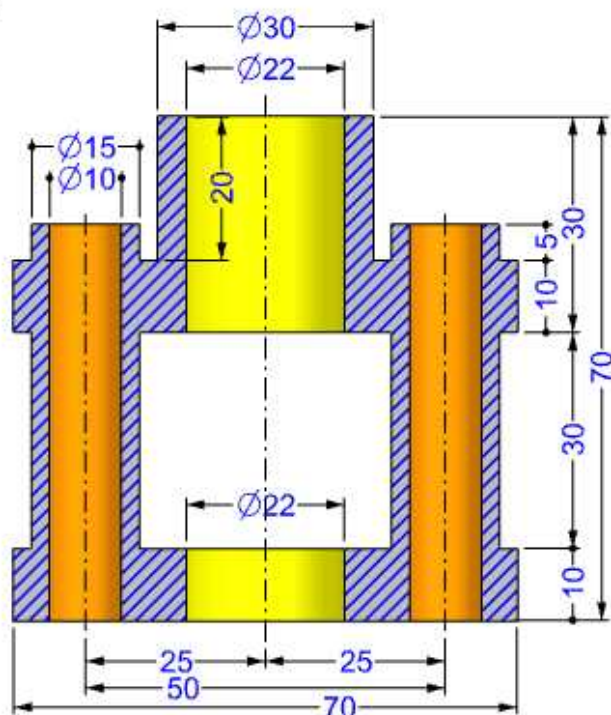
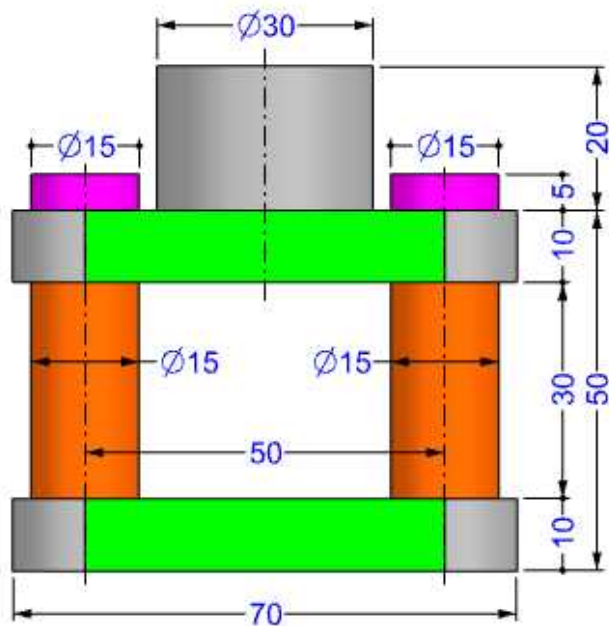
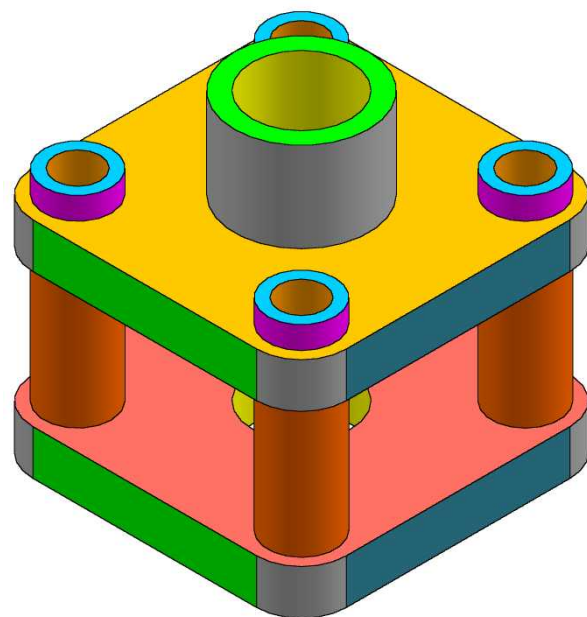
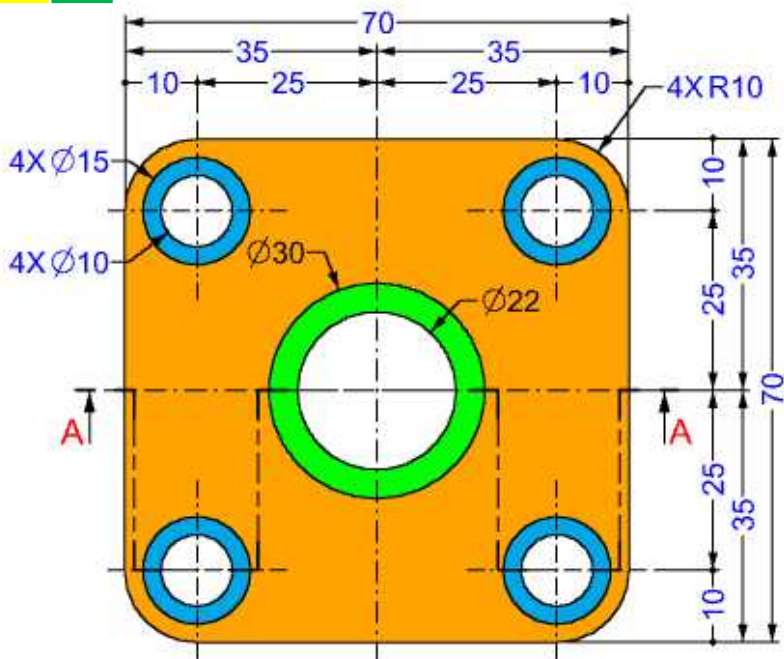
EXERCISE-170



EXERCISE-171

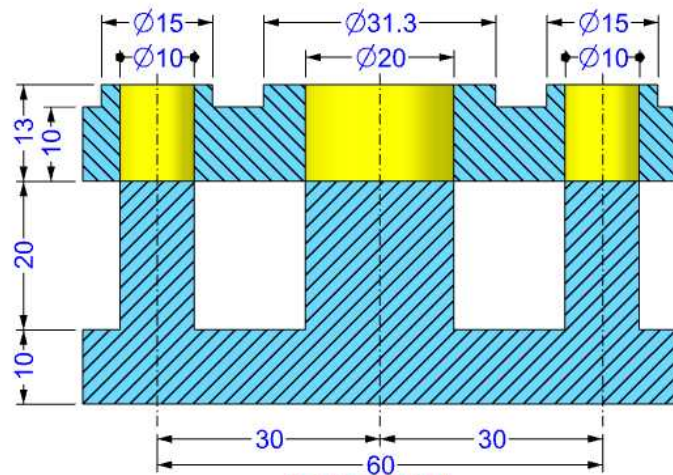
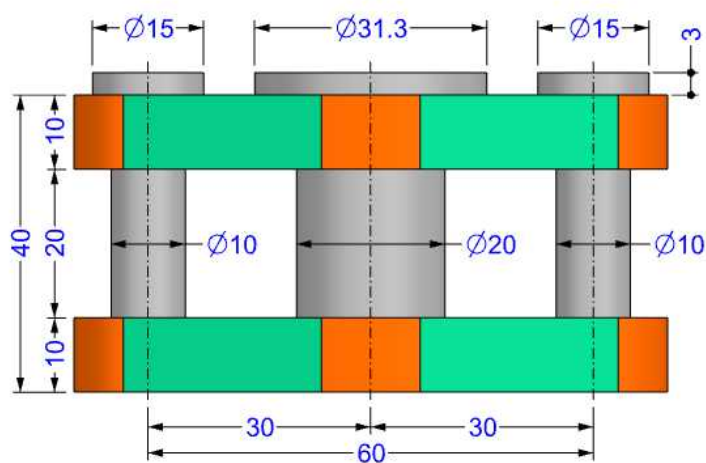
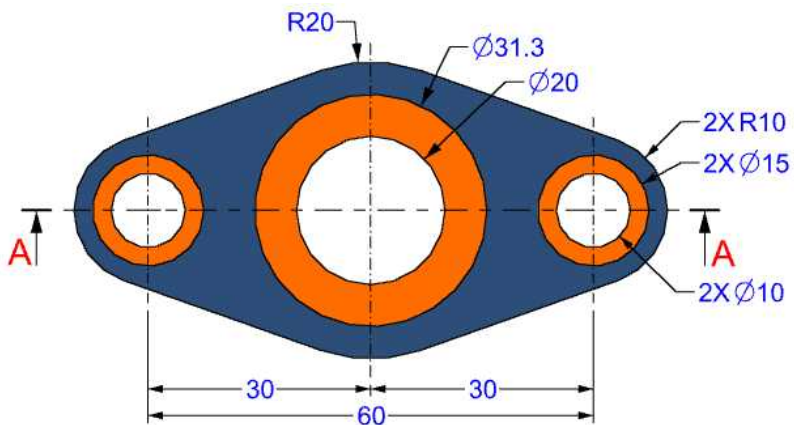
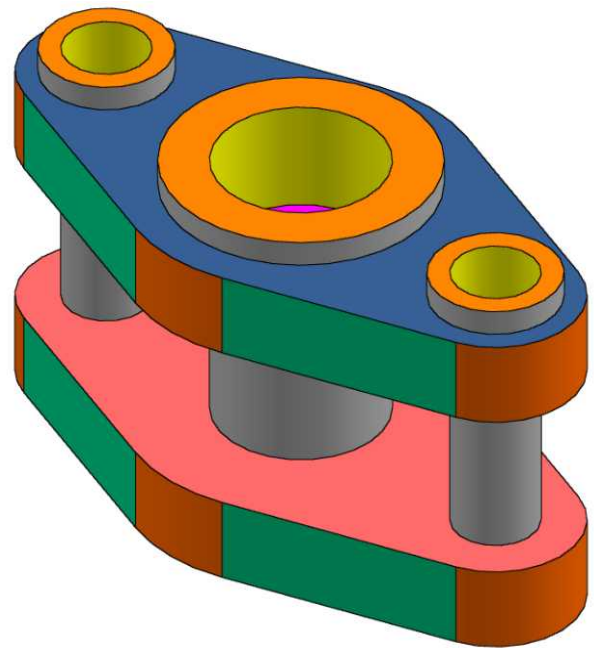




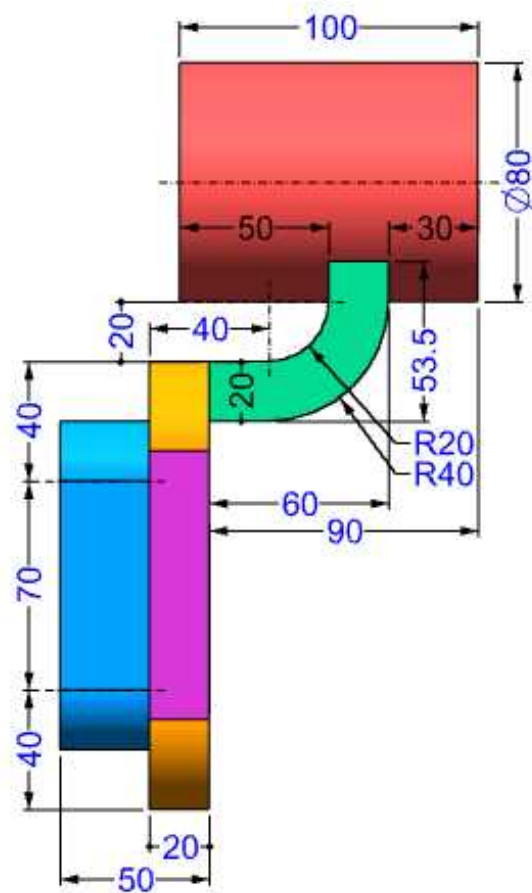
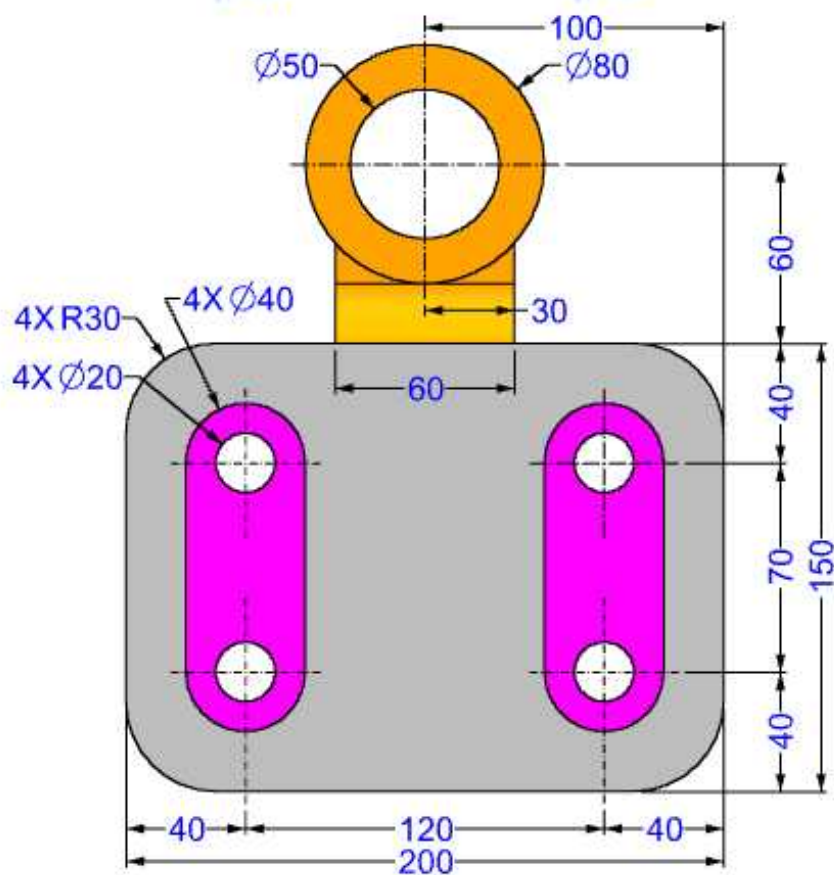
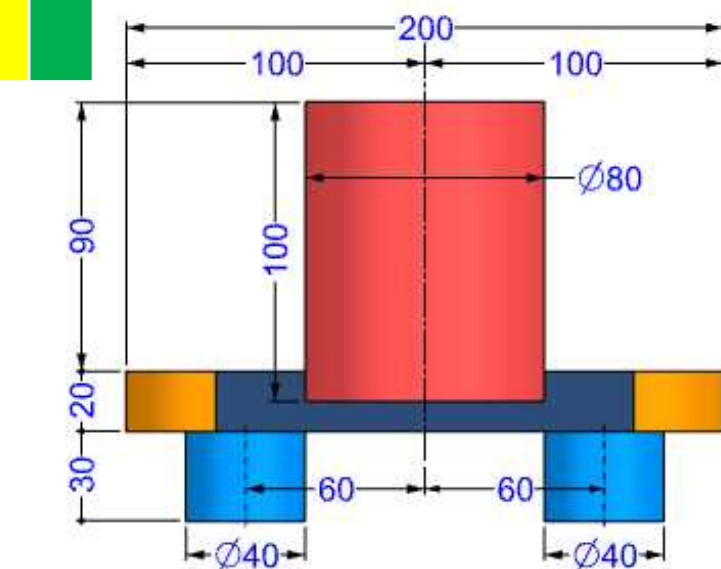
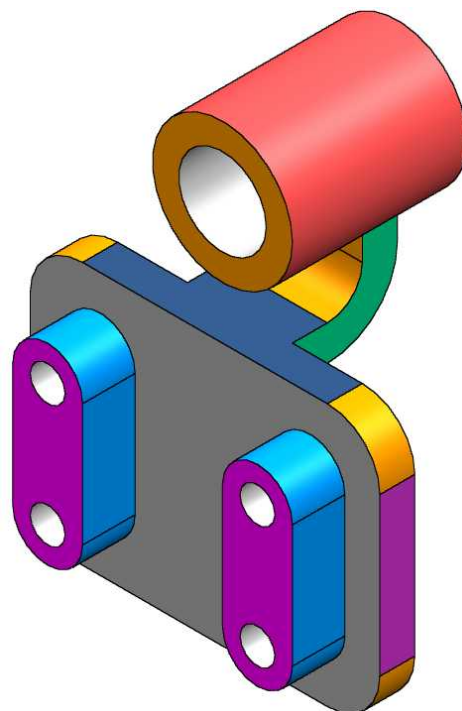
EXERCISE-173

SECTION A-A

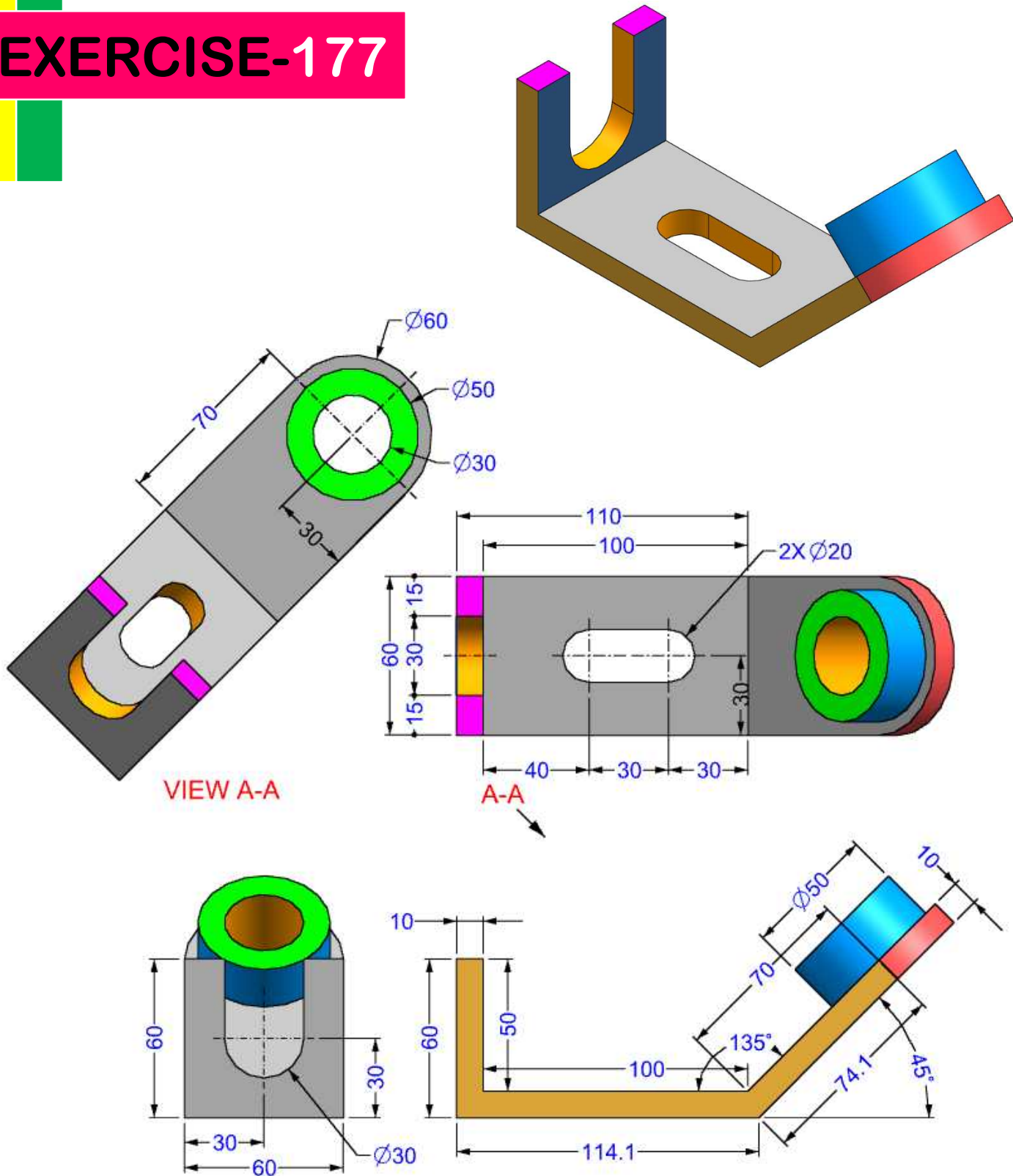
EXERCISE-175



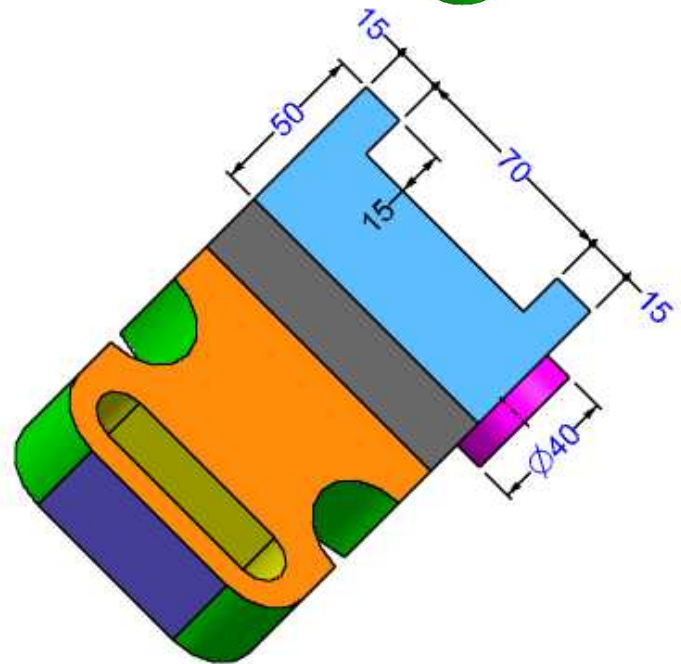
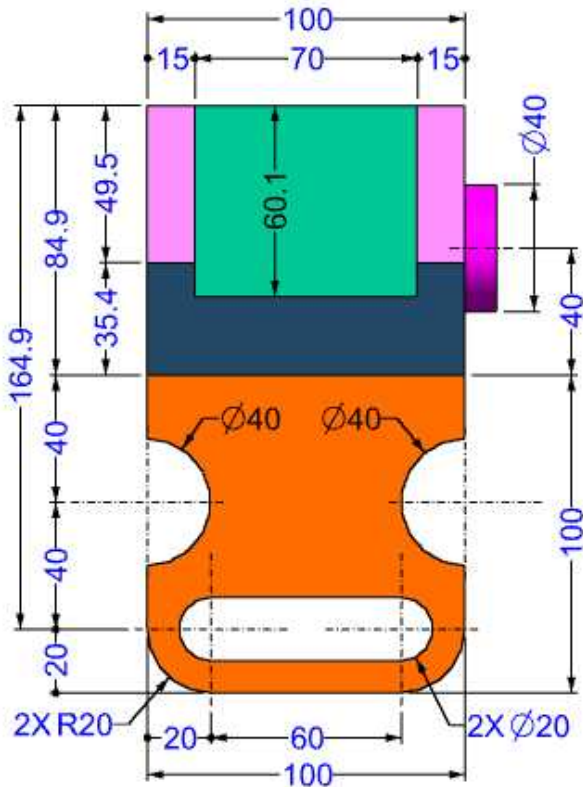
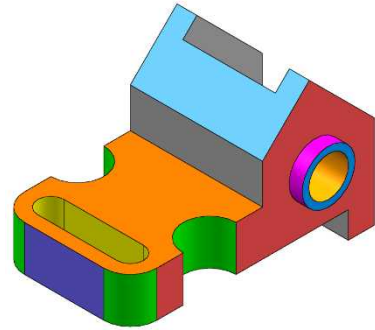
SECTION A-A

EXERCISE-176

EXERCISE-177

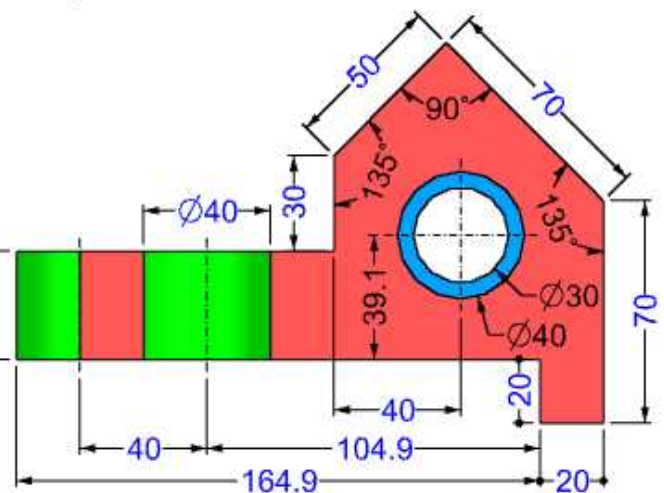
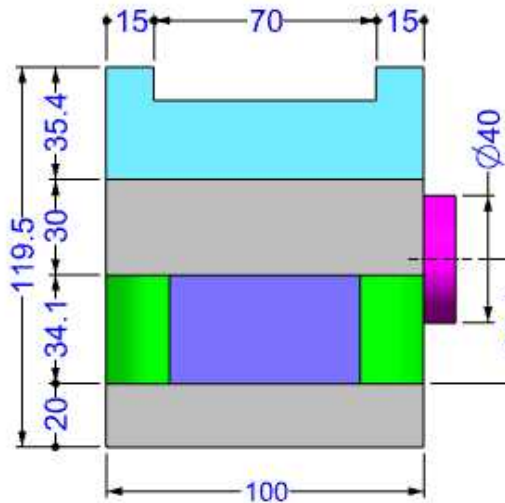


EXERCISE-178

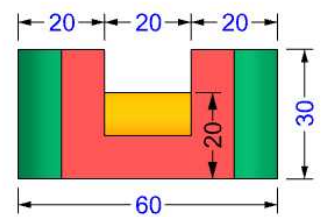
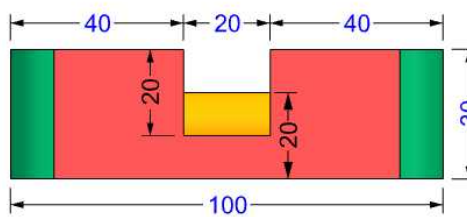
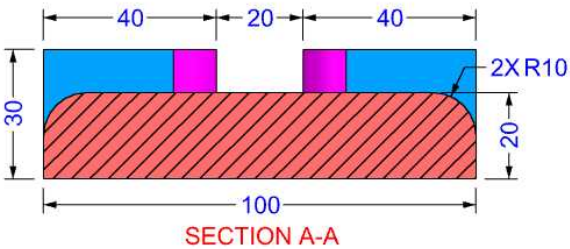
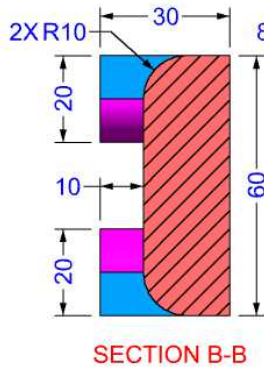
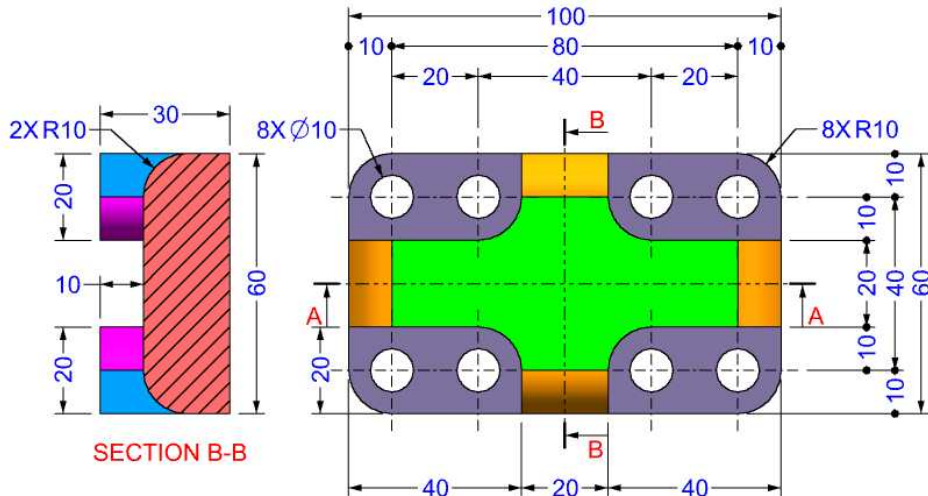
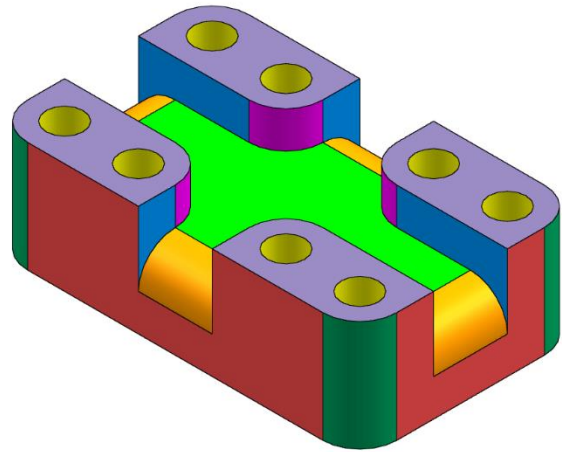


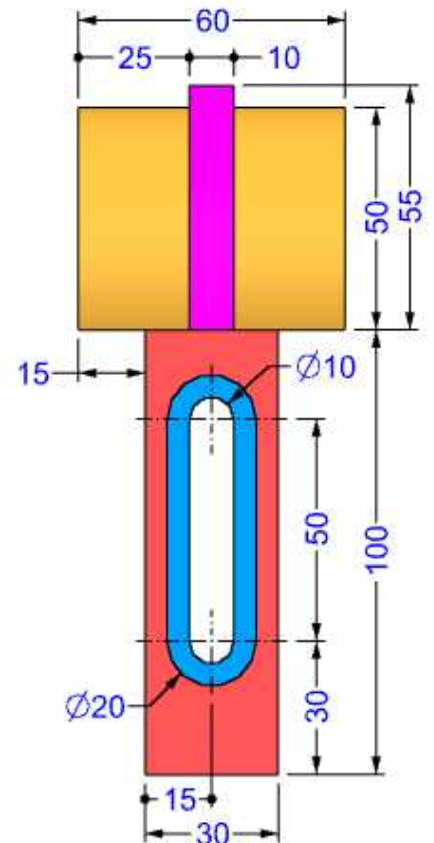
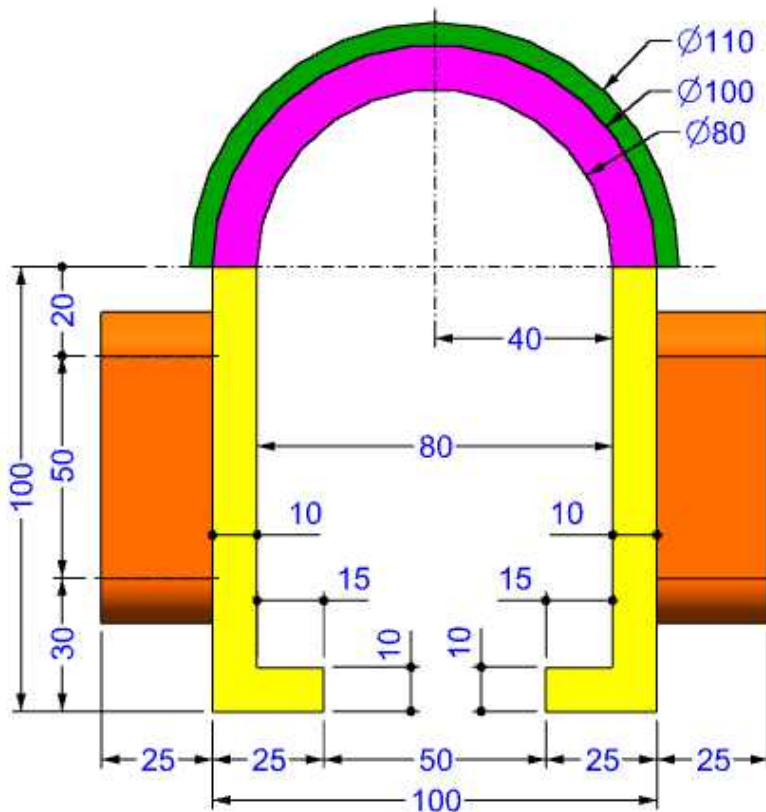
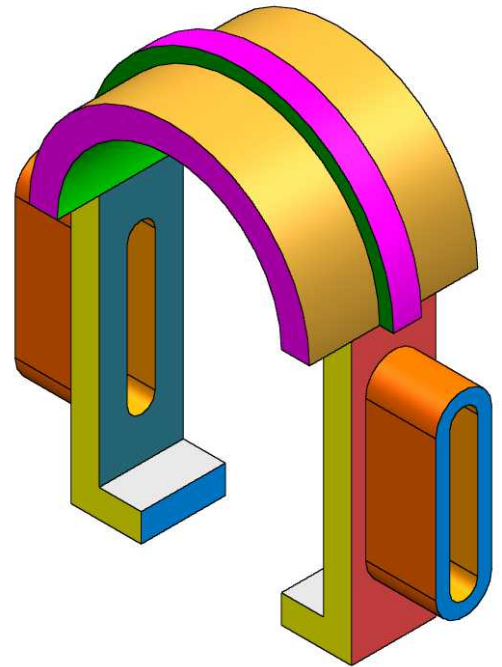
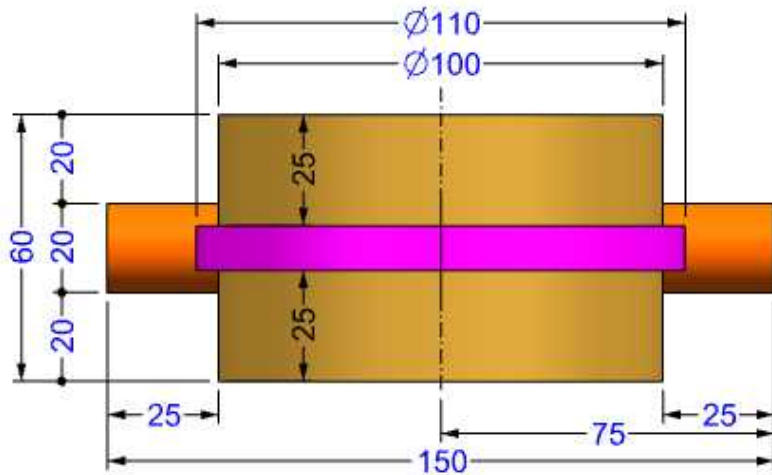
A-A

VIEW A-A

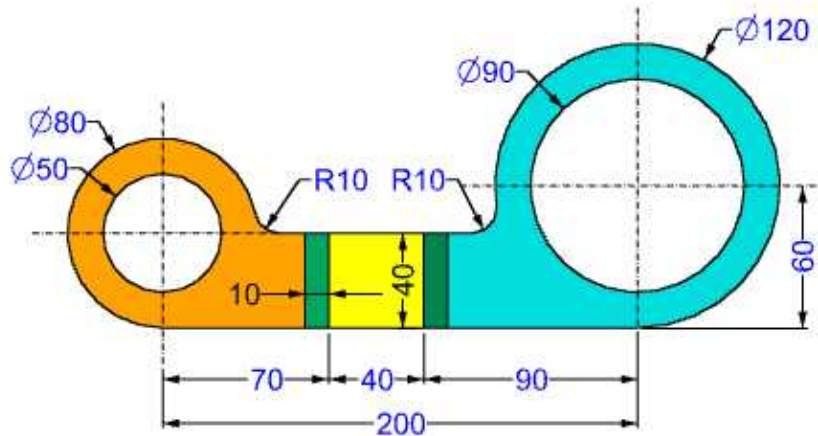
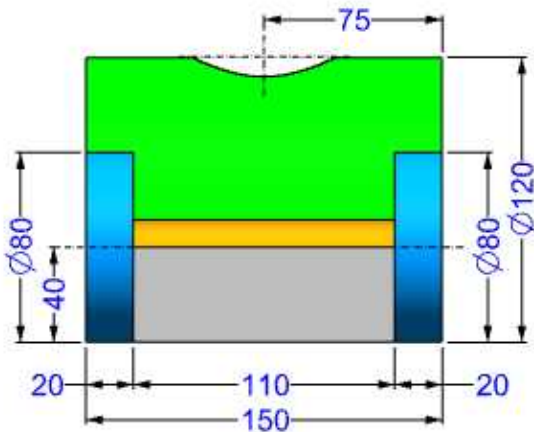
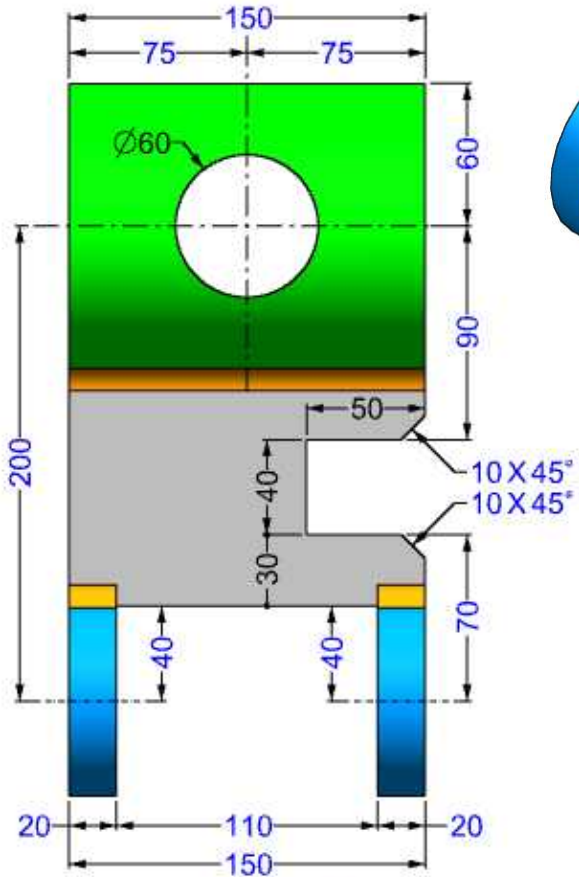
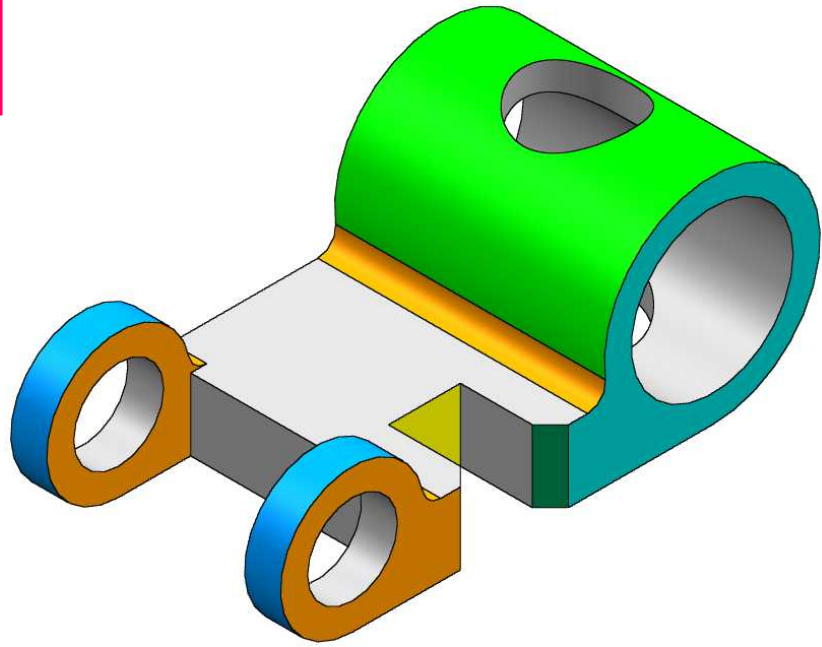


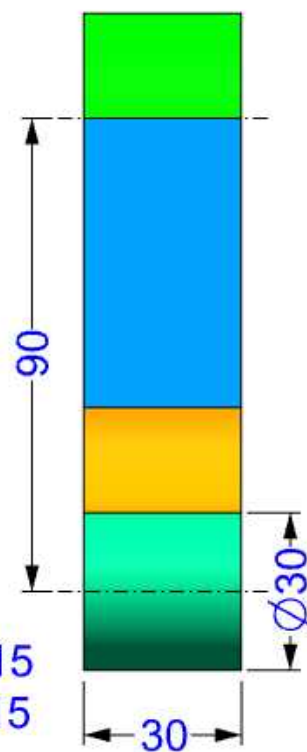
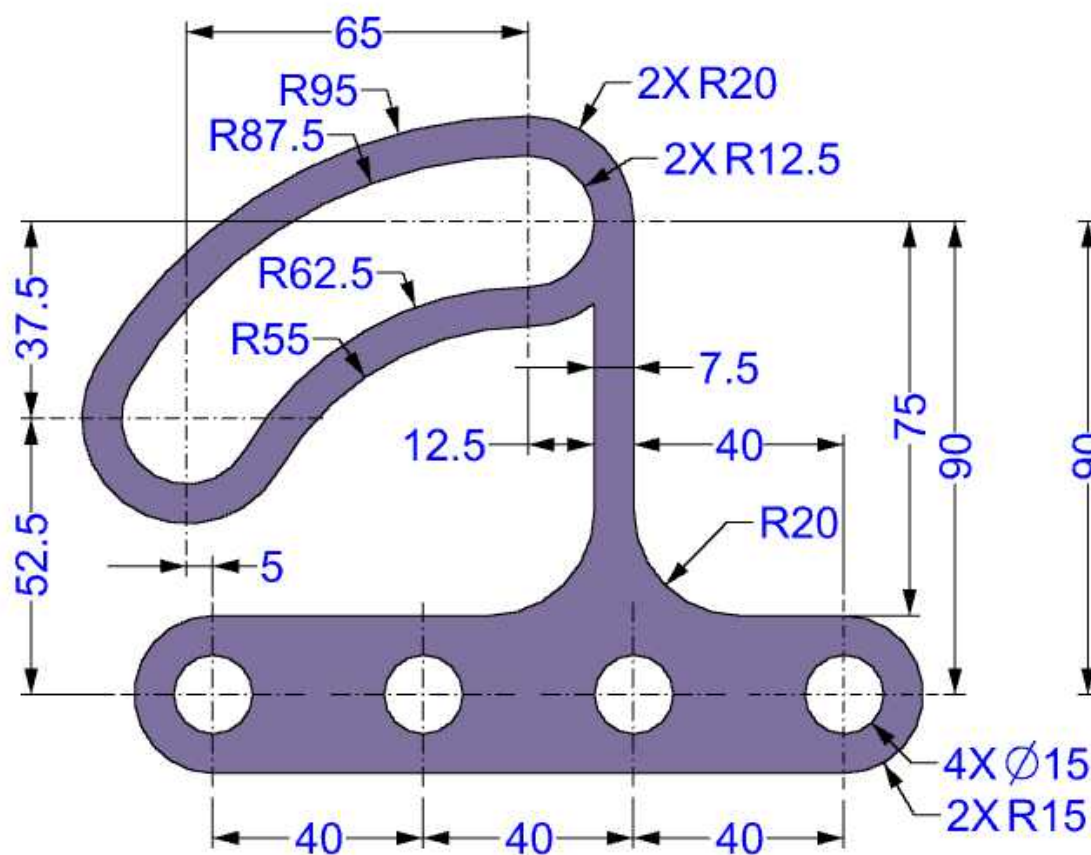
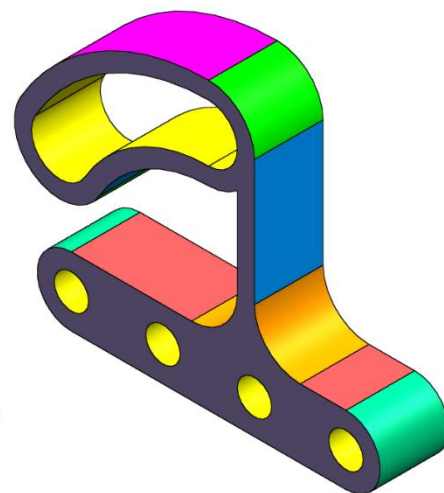
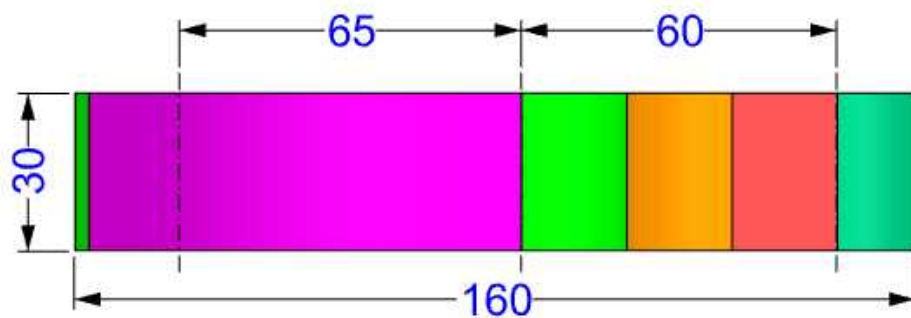
EXERCISE-179

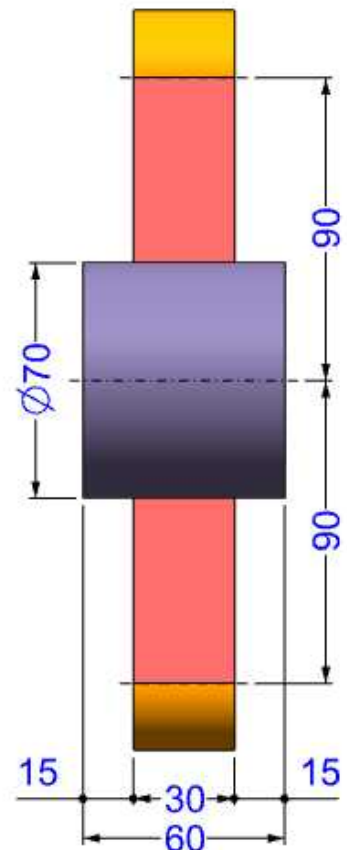
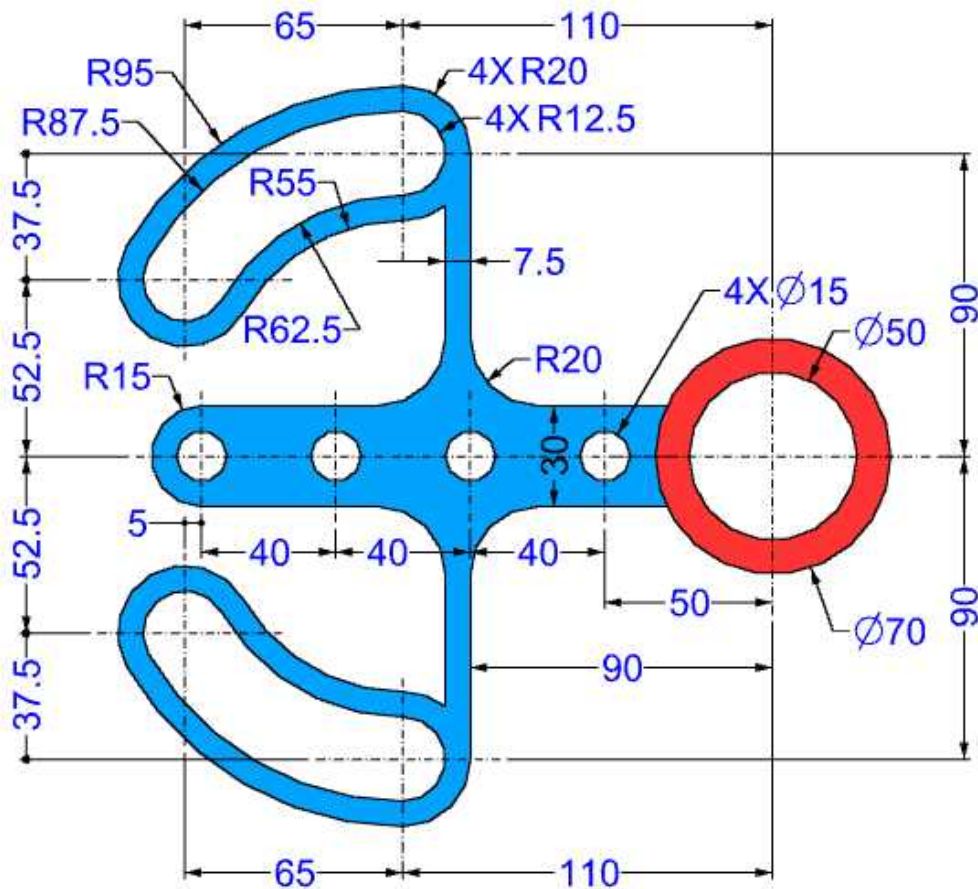
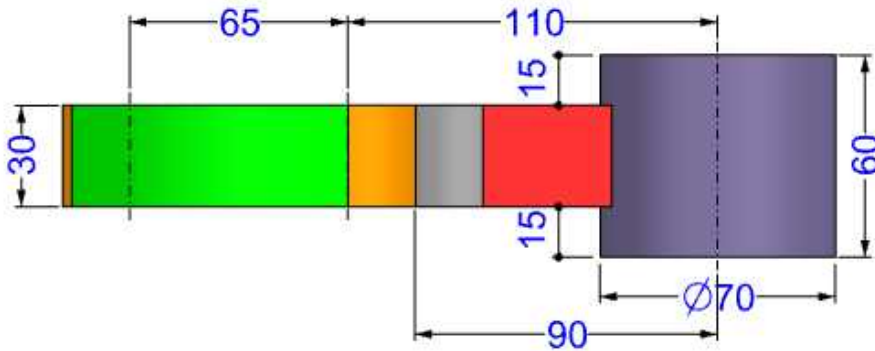
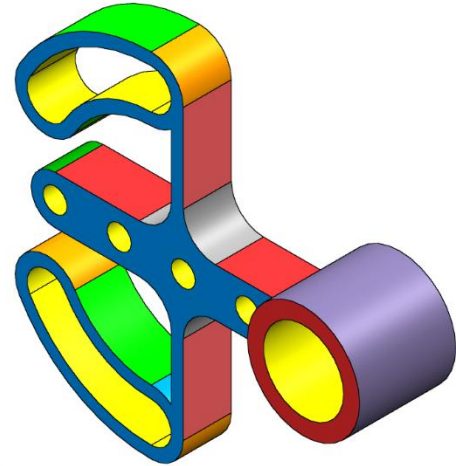


EXERCISE-180

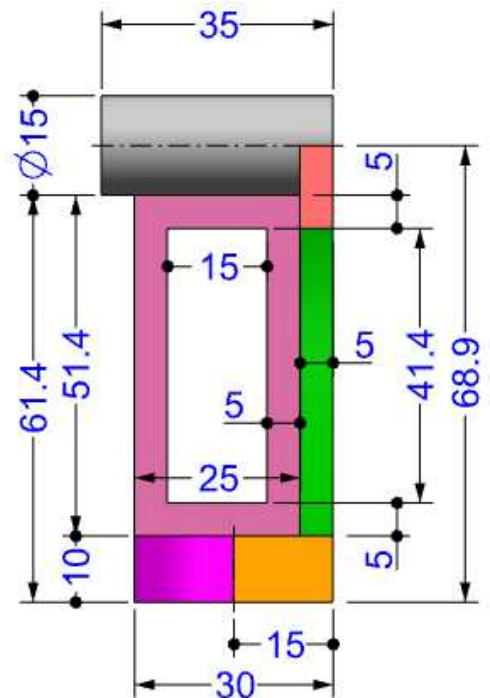
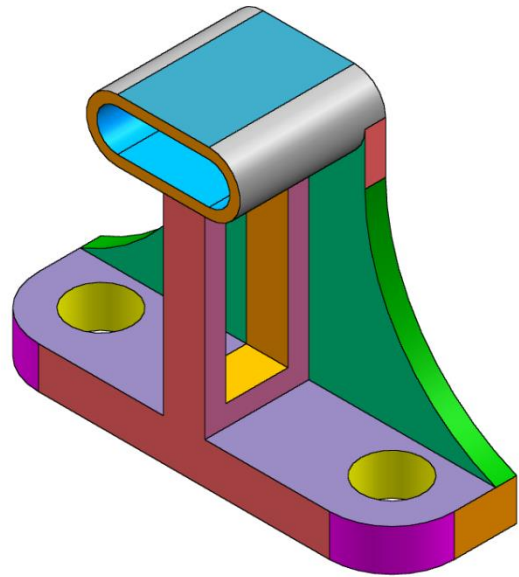
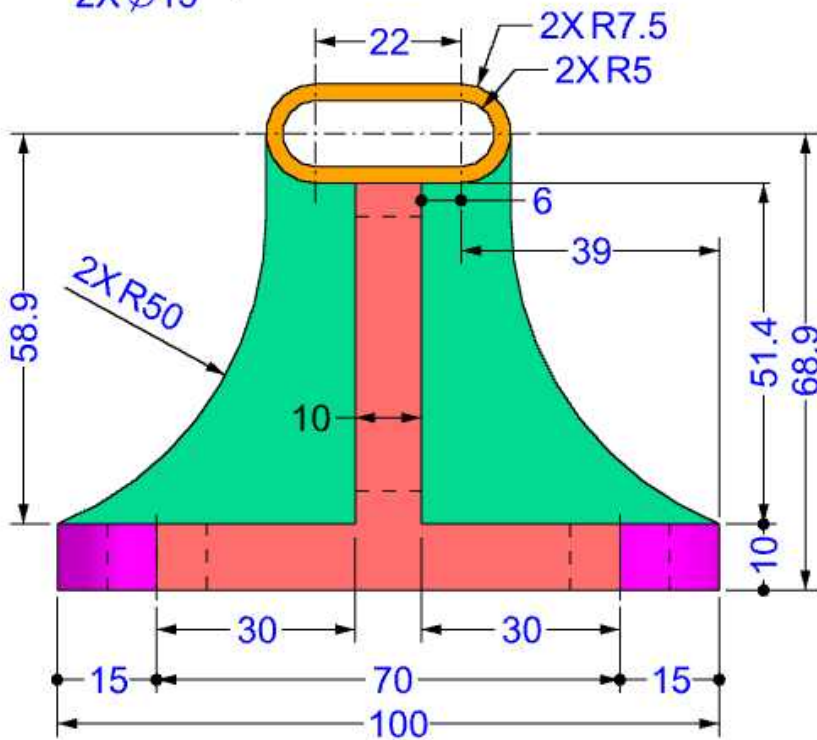
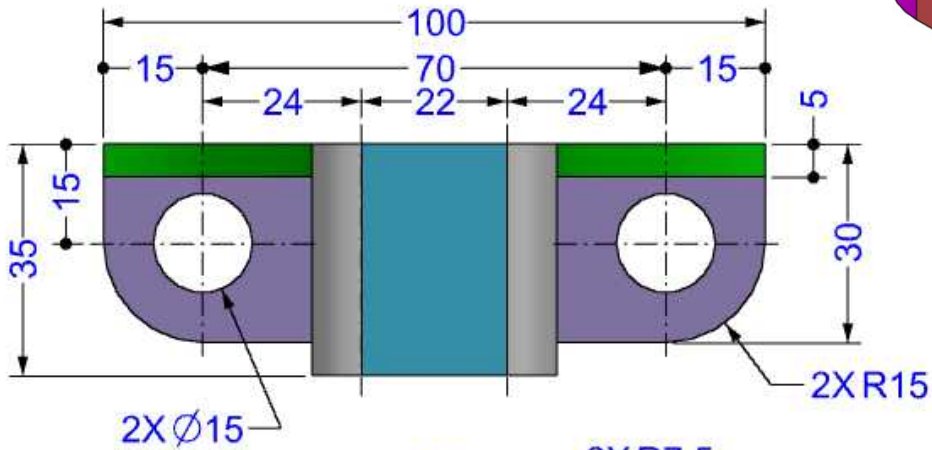
EXERCISE-181



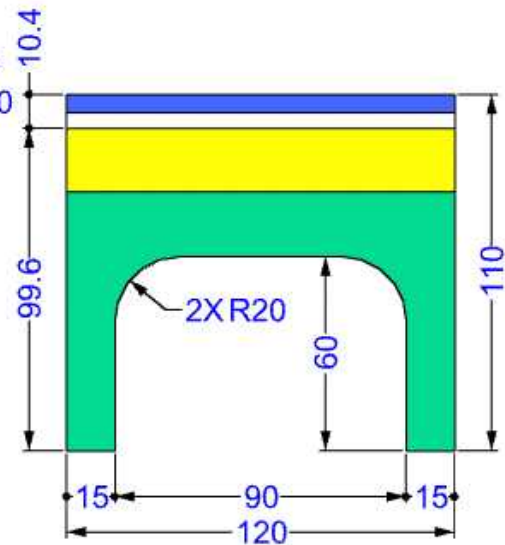
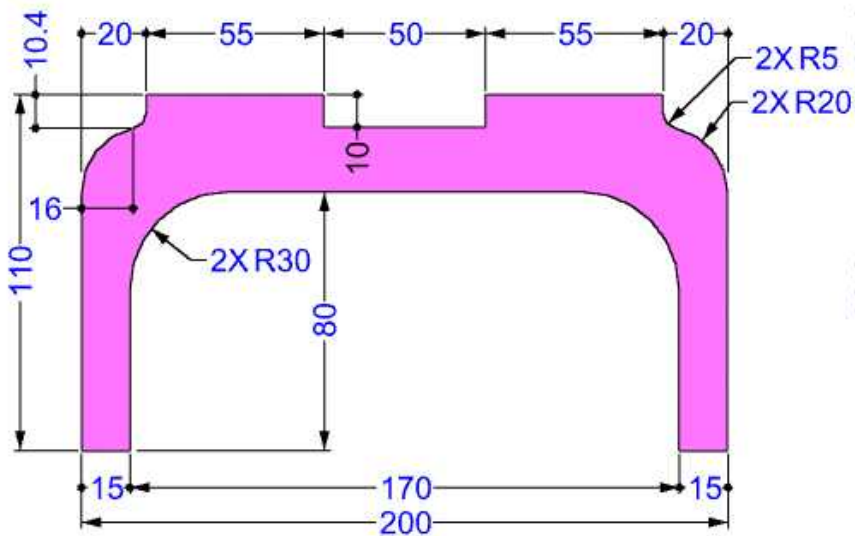
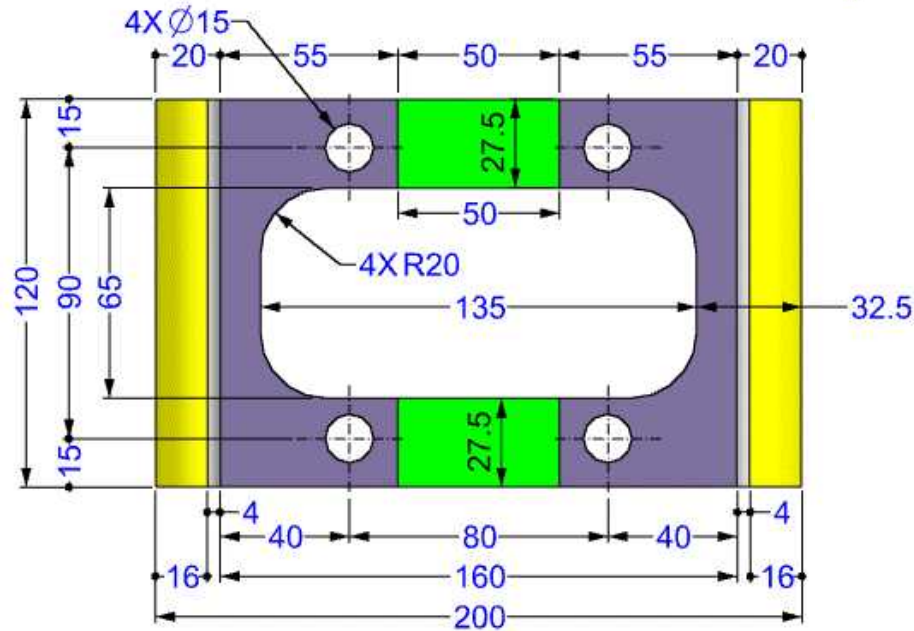
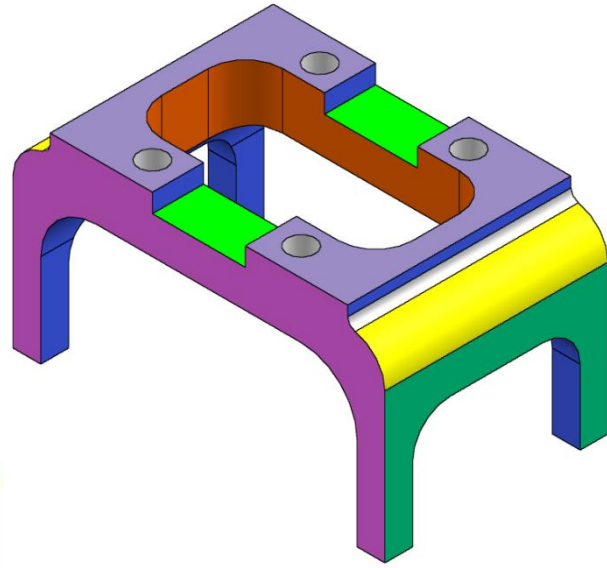
EXERCISE-183

EXERCISE-184

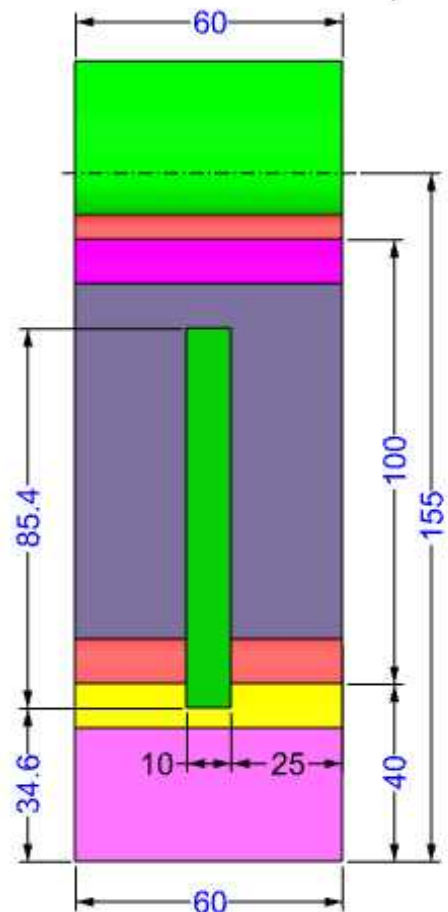
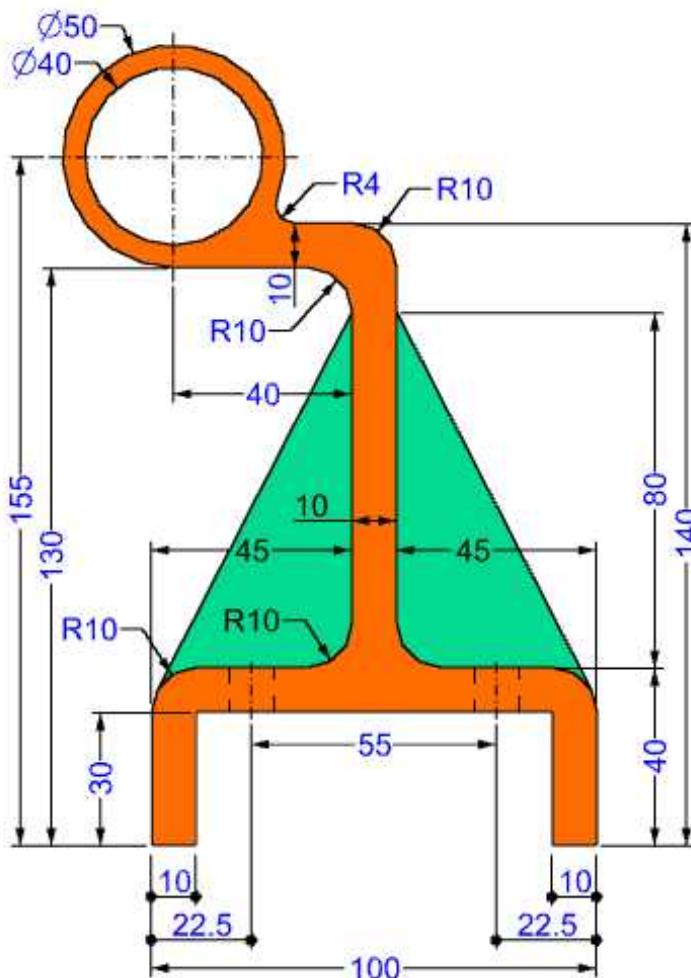
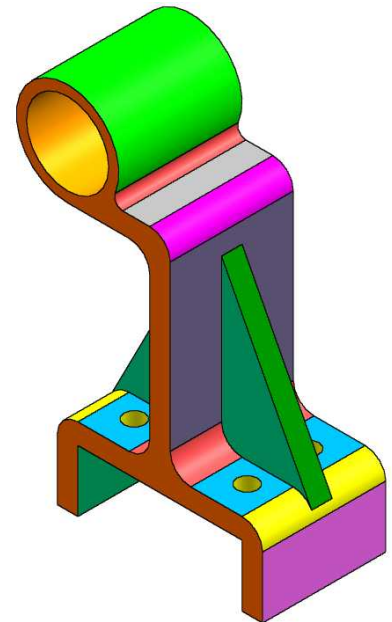
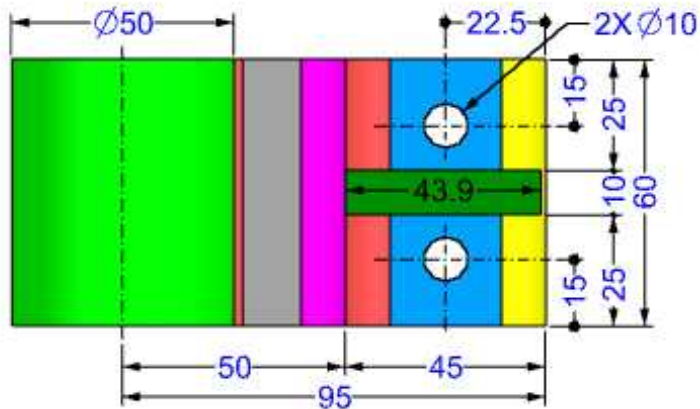
EXERCISE-185

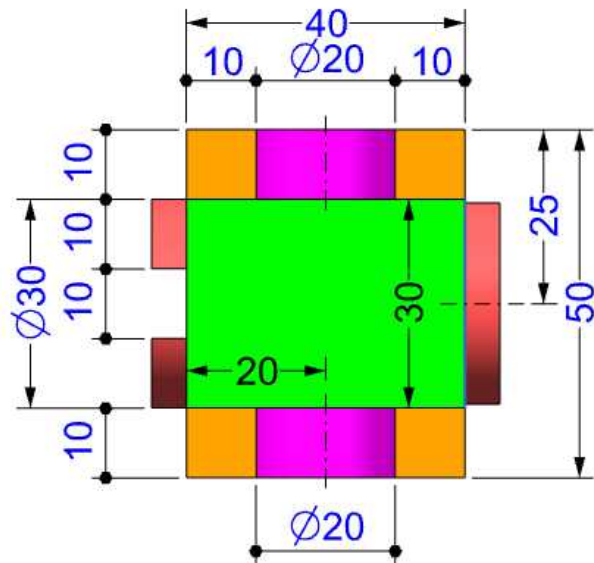
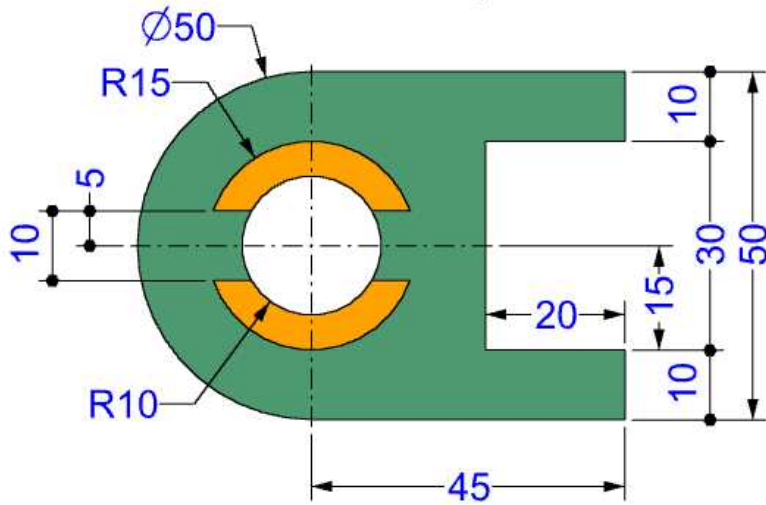
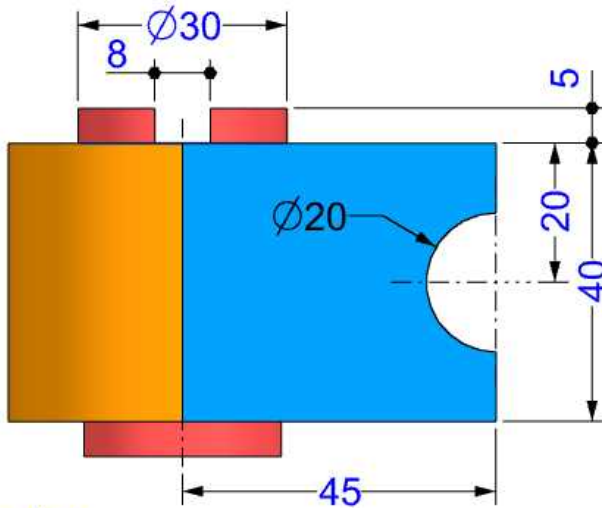
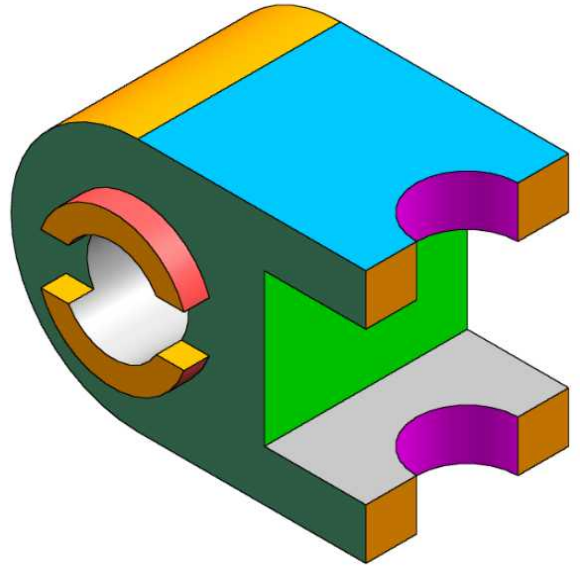


EXERCISE-186

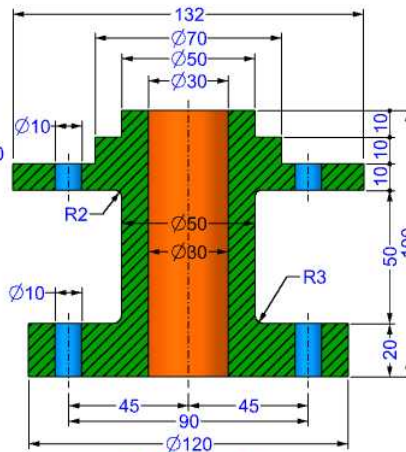
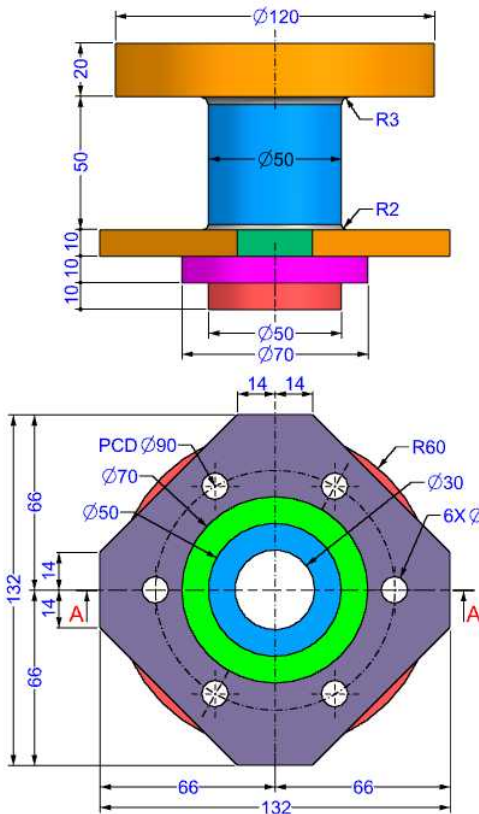
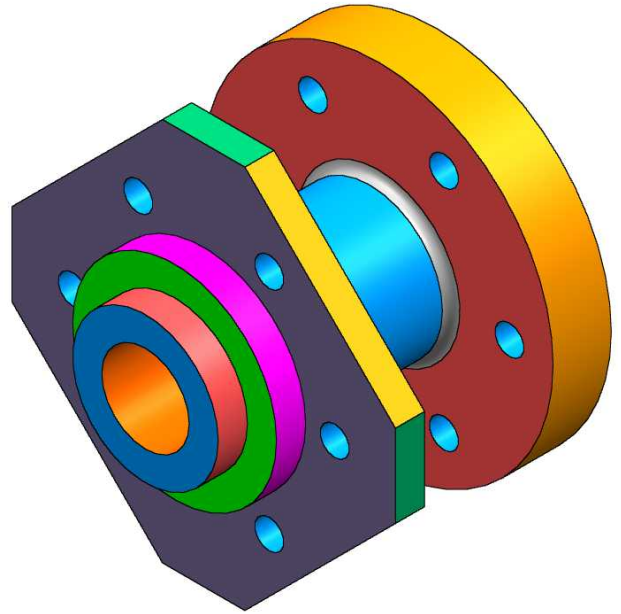


EXERCISE-187

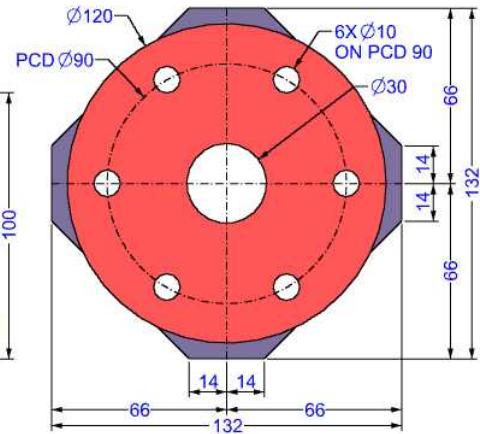


EXERCISE-188

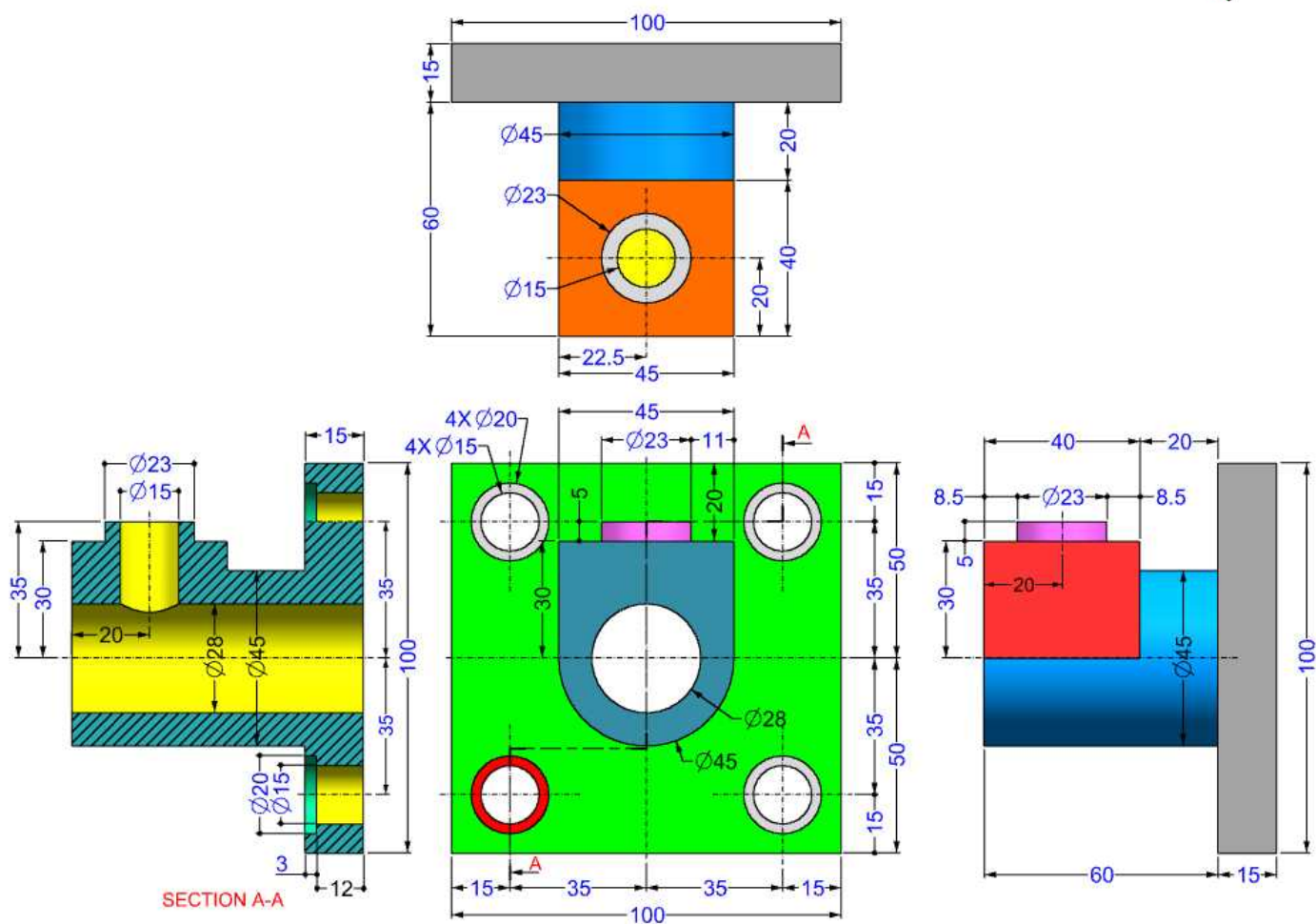
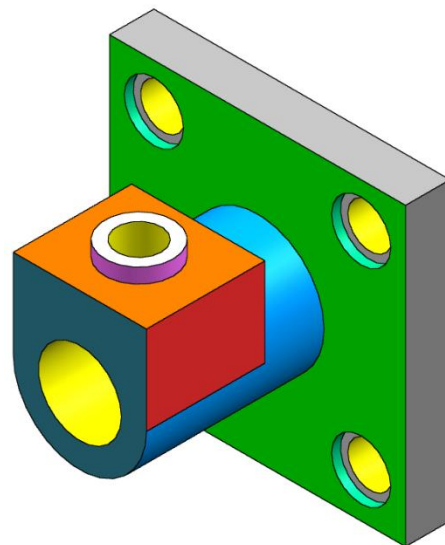
EXERCISE-189



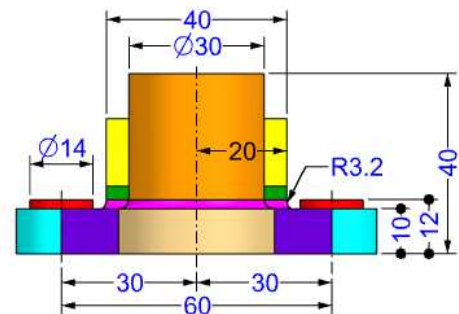
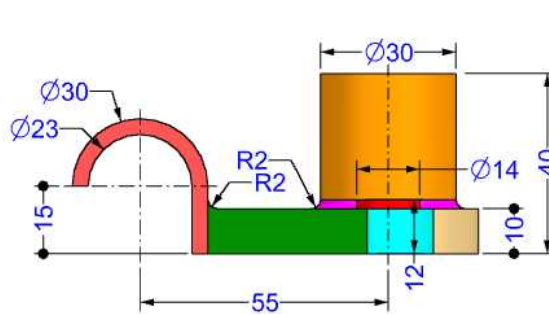
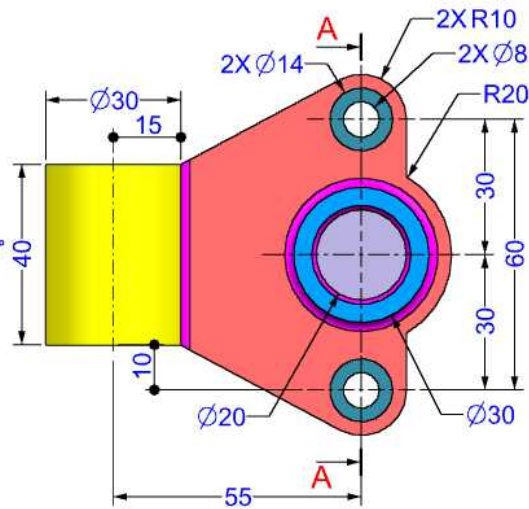
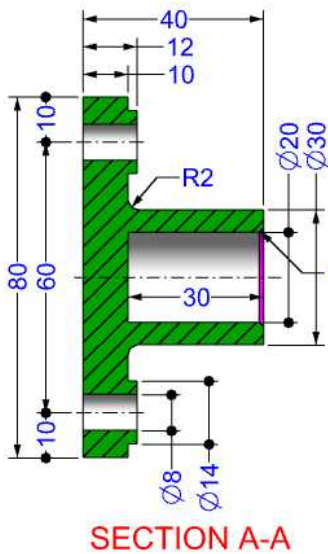
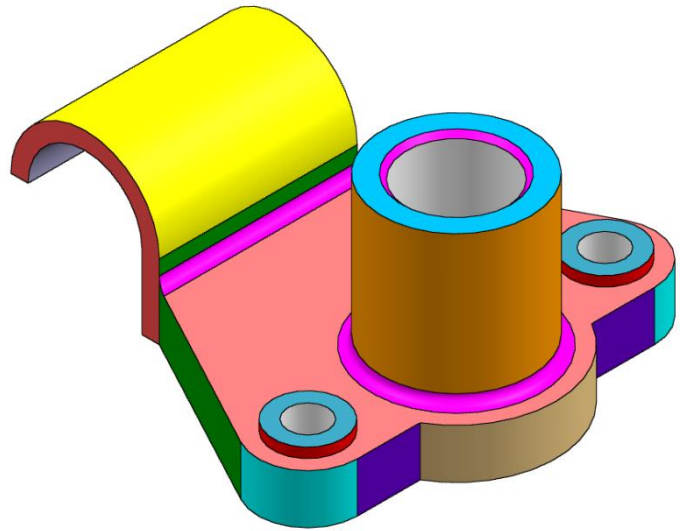
SECTION A-A

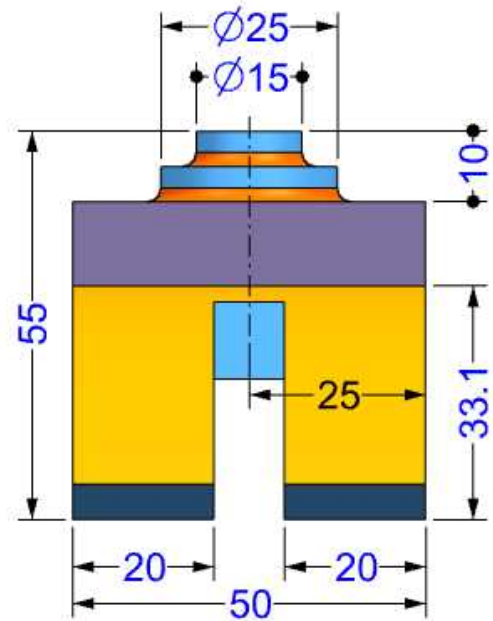
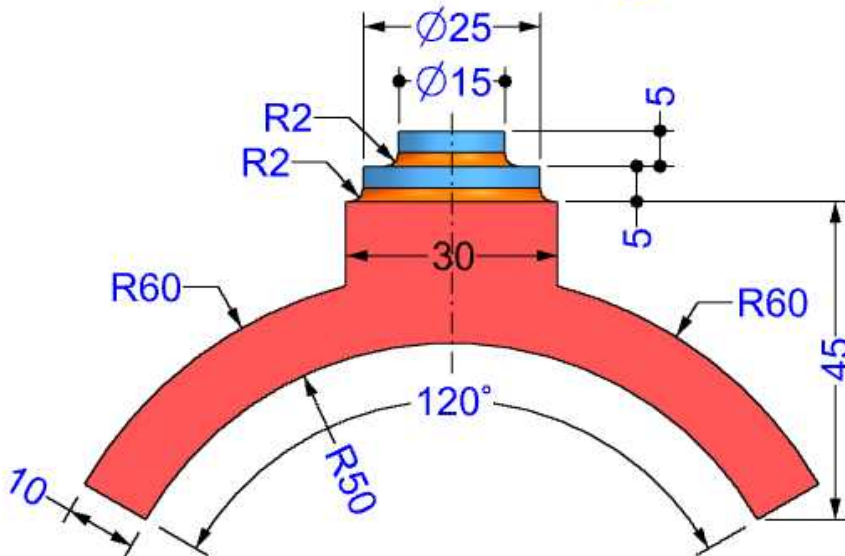
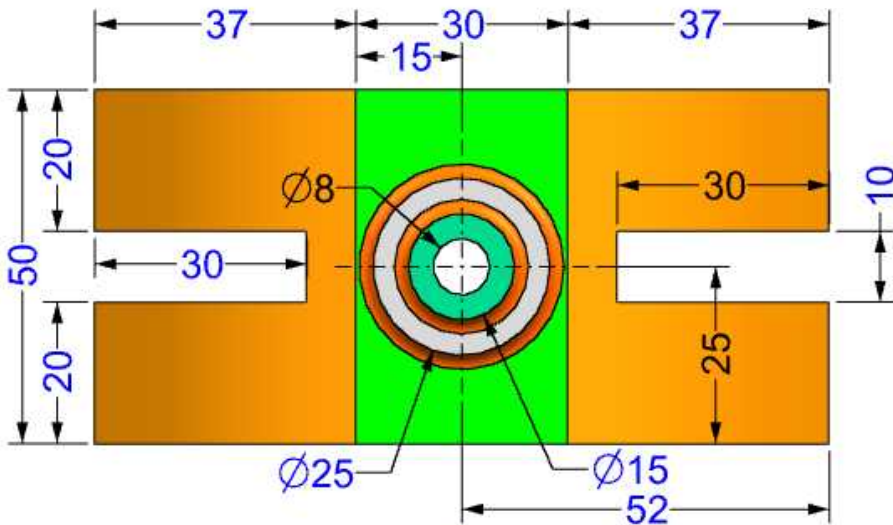
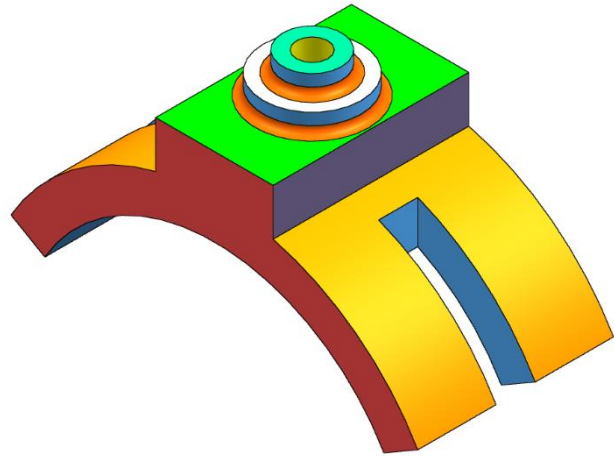


EXERCISE-190

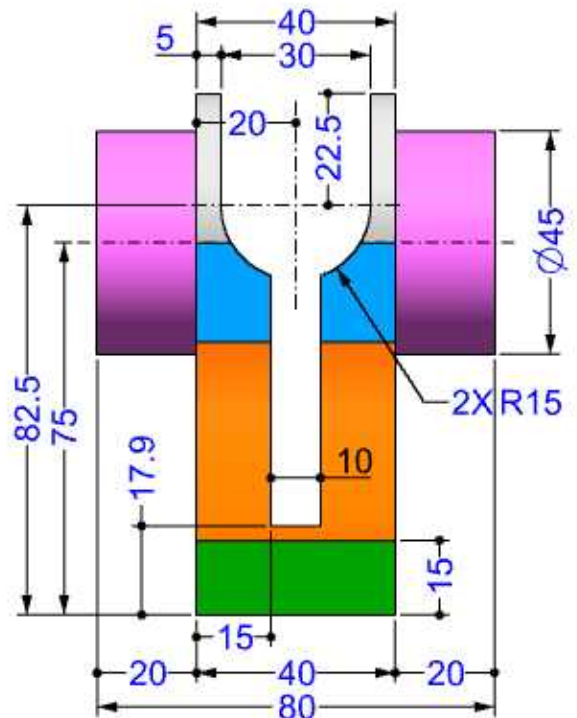
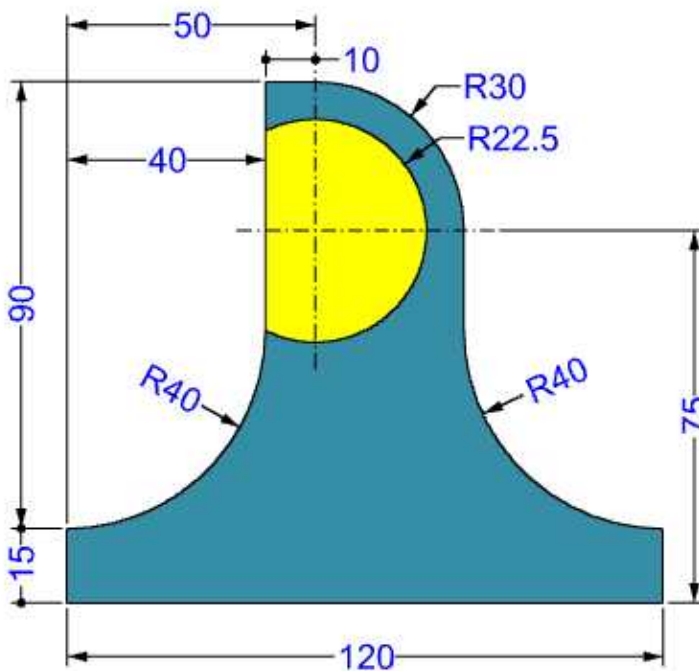
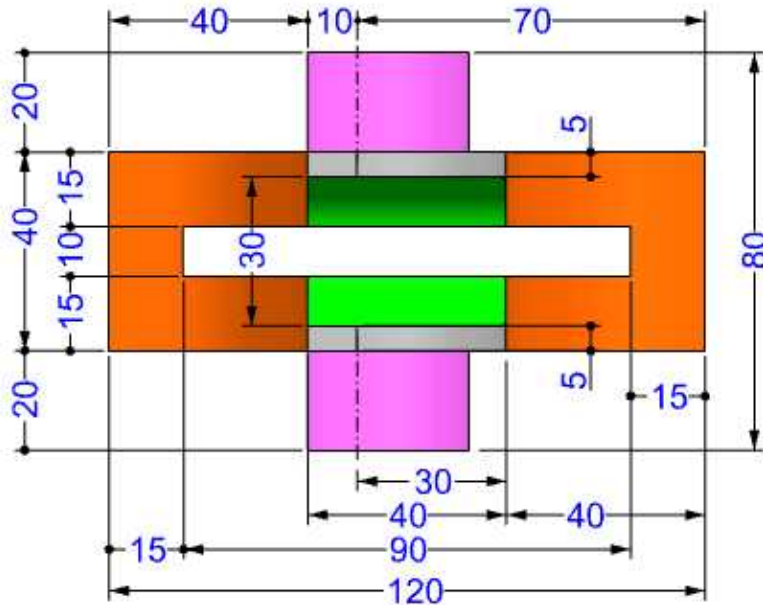
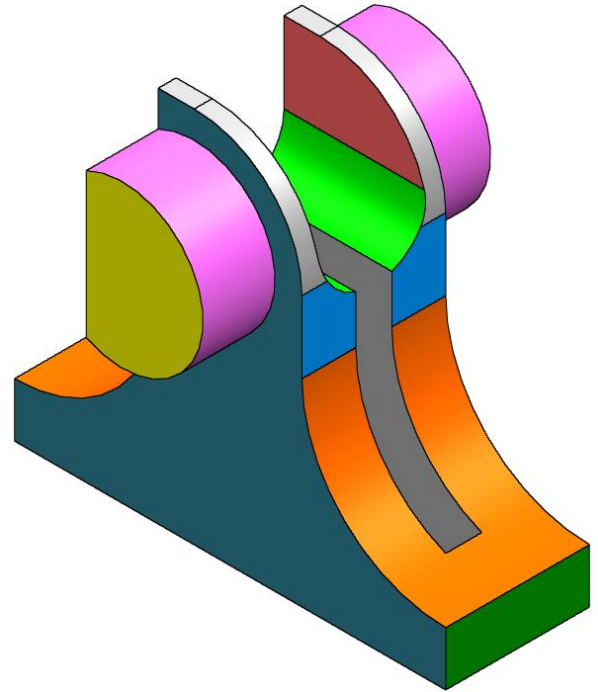


EXERCISE-191

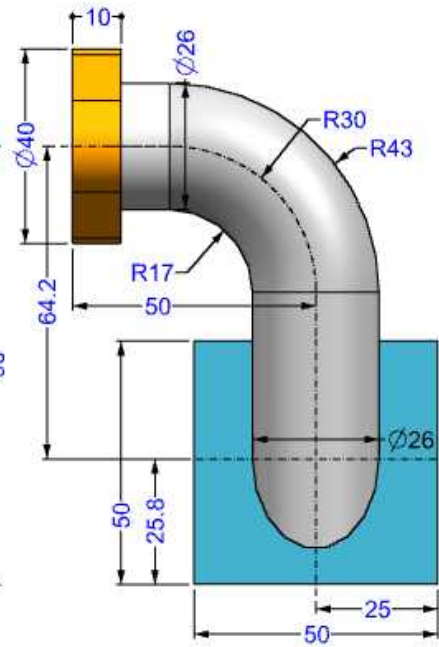
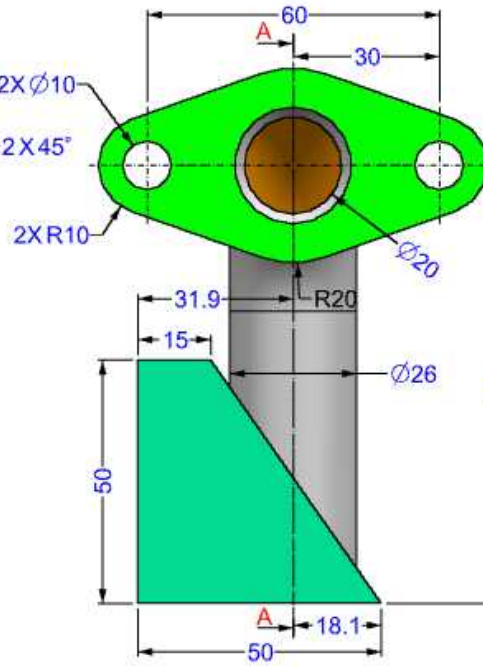
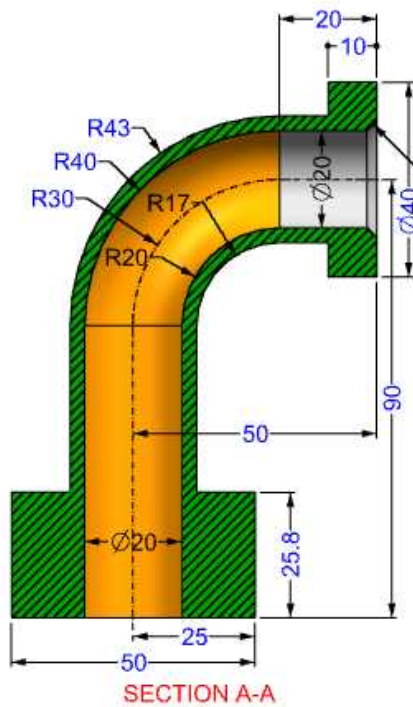
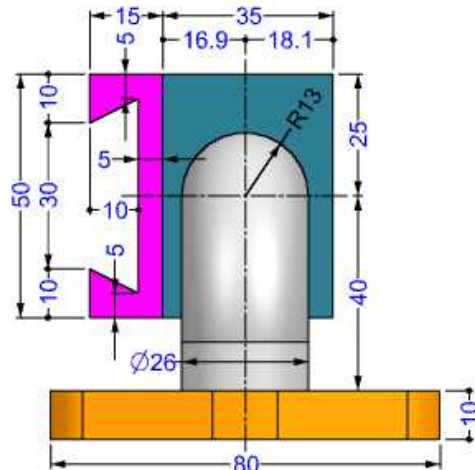
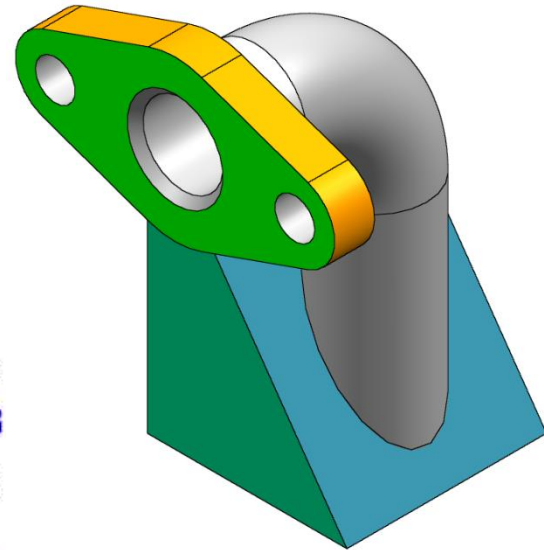


EXERCISE-192

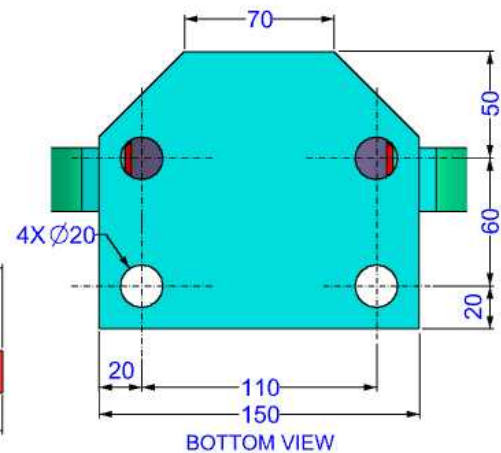
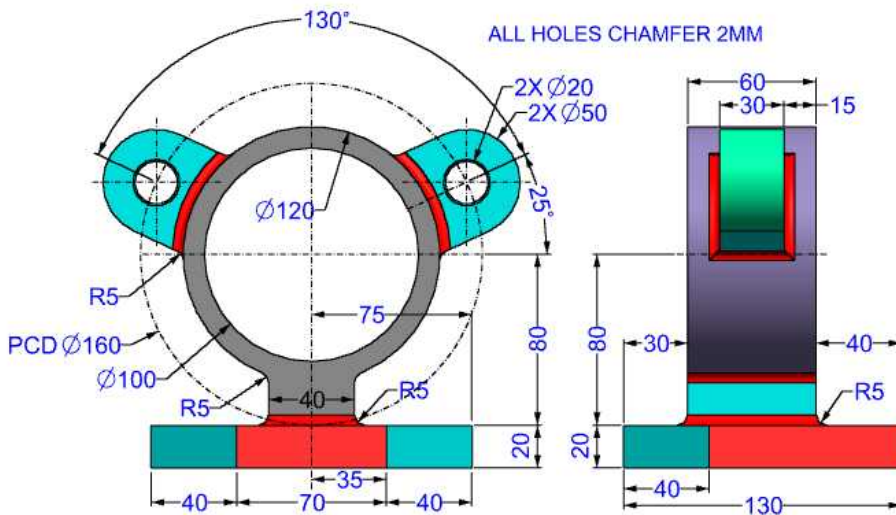
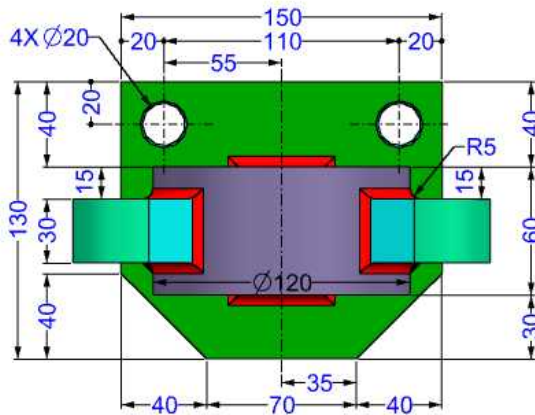
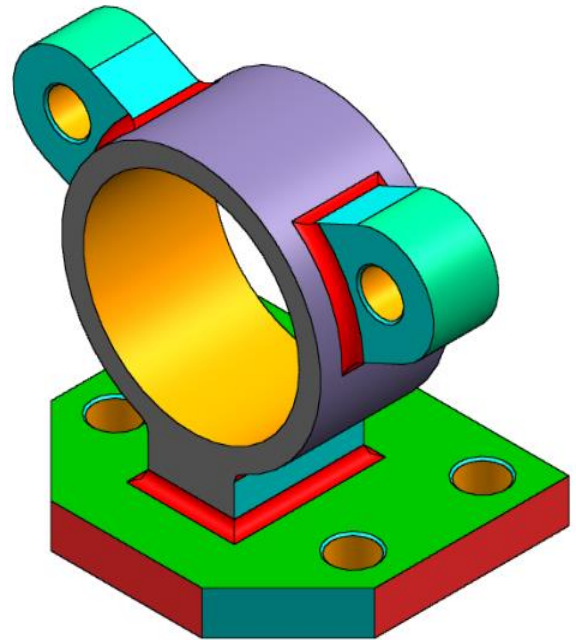
EXERCISE-195

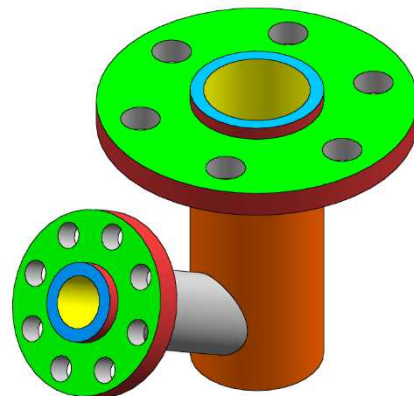


EXERCISE-196



EXERCISE-197





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