# **ASSIGEMENT 4**

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**STEPS TO MAKE FIGURE 5.40(12):**

# 1) Open AutoCAD and click on start drawing.

# 2) In the bottom right corner we can see a setting option, by clicking the drop down menu present beside it we can enable 3D modelling.

# 3)Then click on "unsaved view " present in the VIEW of HOME tab .

# 4)Then click on "SE ISOMETRIC " from the options available.

# 5)Then type “UCSICON” command and the click on no origin.

# 6)Click on "BOX" command from modelling and give length of 120 ,breadth of 80 and height of 15

# 7)Then select shaded with edges.

# 8)Then use "CYLINDER" option from MODELLING and select 2 points.

# 9)Then from midpoints of the box make a cylinder of height 20.

# 10)With the center of that cylinder make another cylinder of radius 30 and depth 15.

# 11) And then using SUBTRACT,remove the middle cylinder.

# 12) Then make a circle of radius 15 and depth of 20.

# 13) Then using SUBTRACT ,remove it .

# 14) Then using box,make a box at edge of the first box with breadth 20 and depth of 35.

# 15)Then we need to make cyclinder at bottom of the box. For that click on CYLINDER from MODELLING , and use 2 point option at the edges of the box, then click on AXIS ENDPOINT to make it vertical, make ORTHO on and make a depth of 20 in horizontal axis.

# 16)Then click on CYLINDER from MODELLING, select the centre and give a diameter of 32, and depth of 20.

# 17)Then merge the objects clicking on SOLID UNION, then by clicking on SUBTRACT, remove the inner cylinder.

# 18)Then copy the figure to other end of the box by clicking on COPY and specify the base point and the end point.

# 19)And then click on SOLID UNION , and join the whole figure.

# **STEPS TO ADD COLOR TO THE FIGURE**

# Double click on the figure and select the color you want .