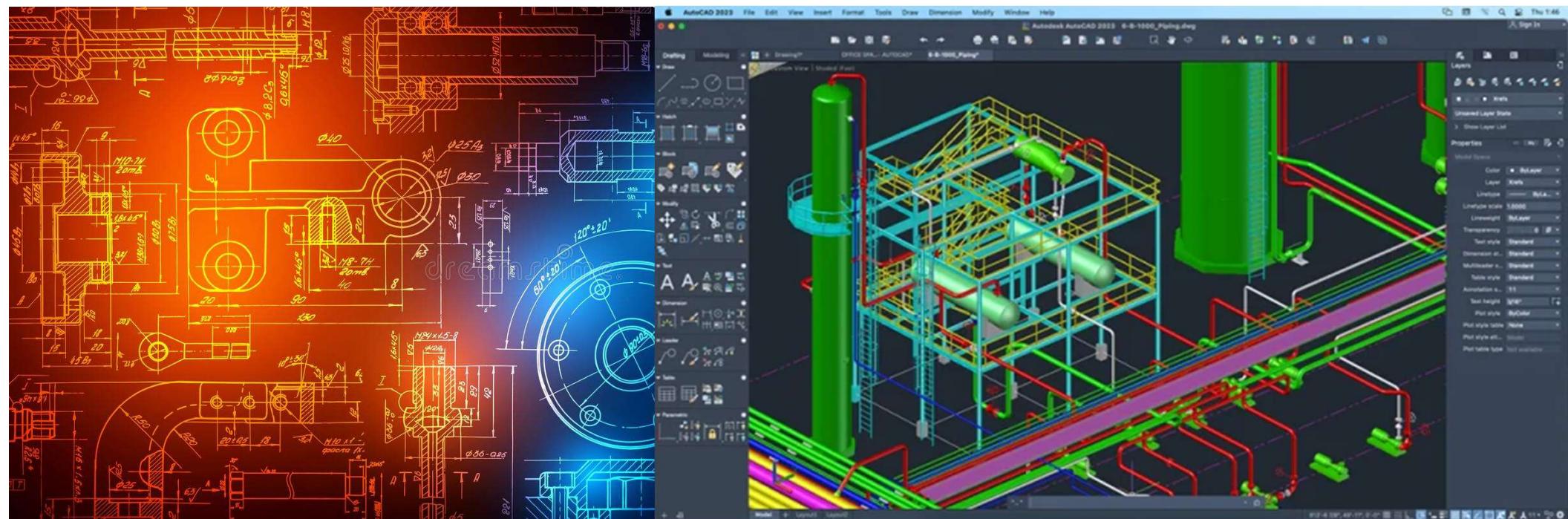


✓

Engineering Design and Drawing

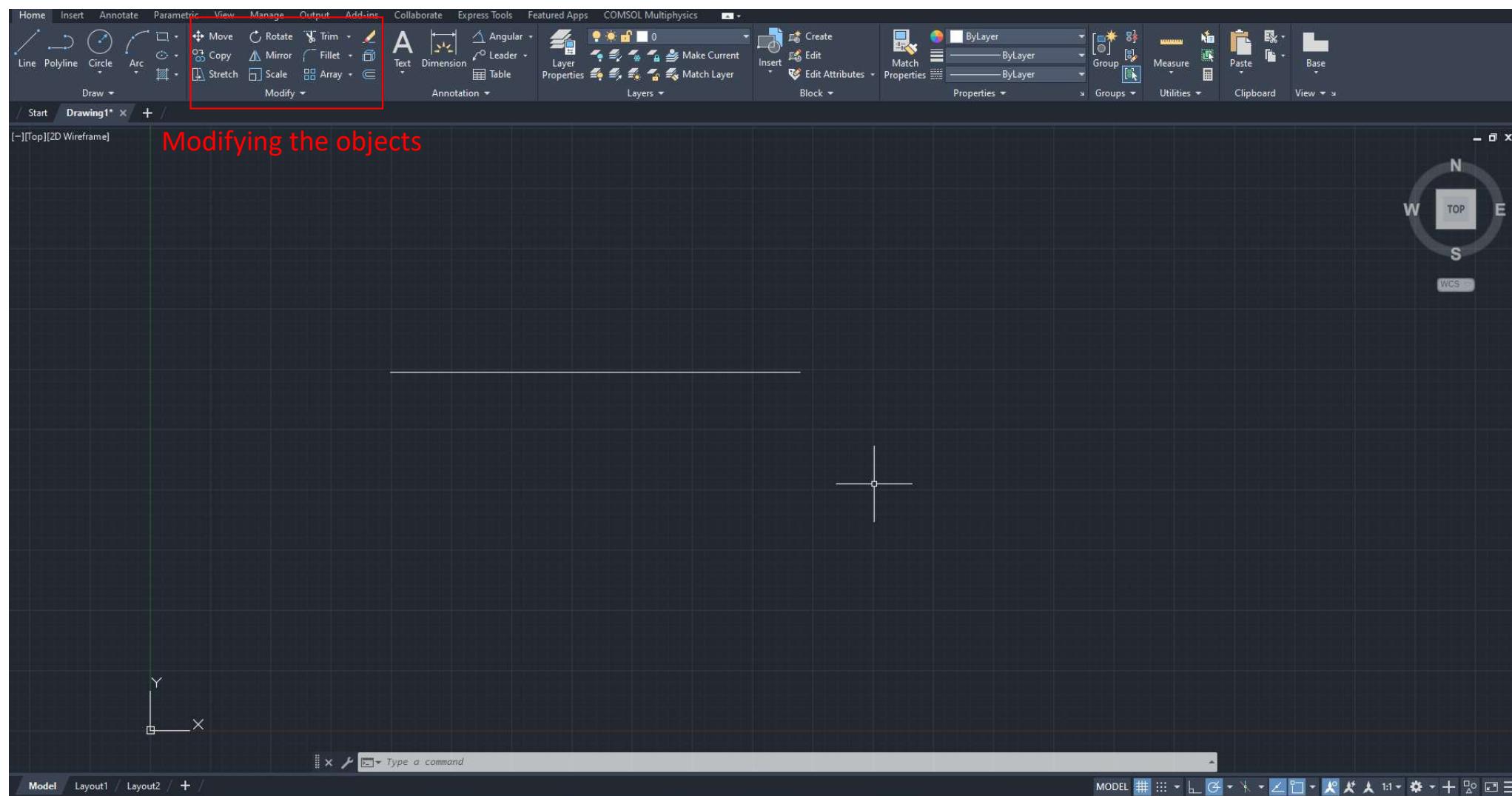
CHE103



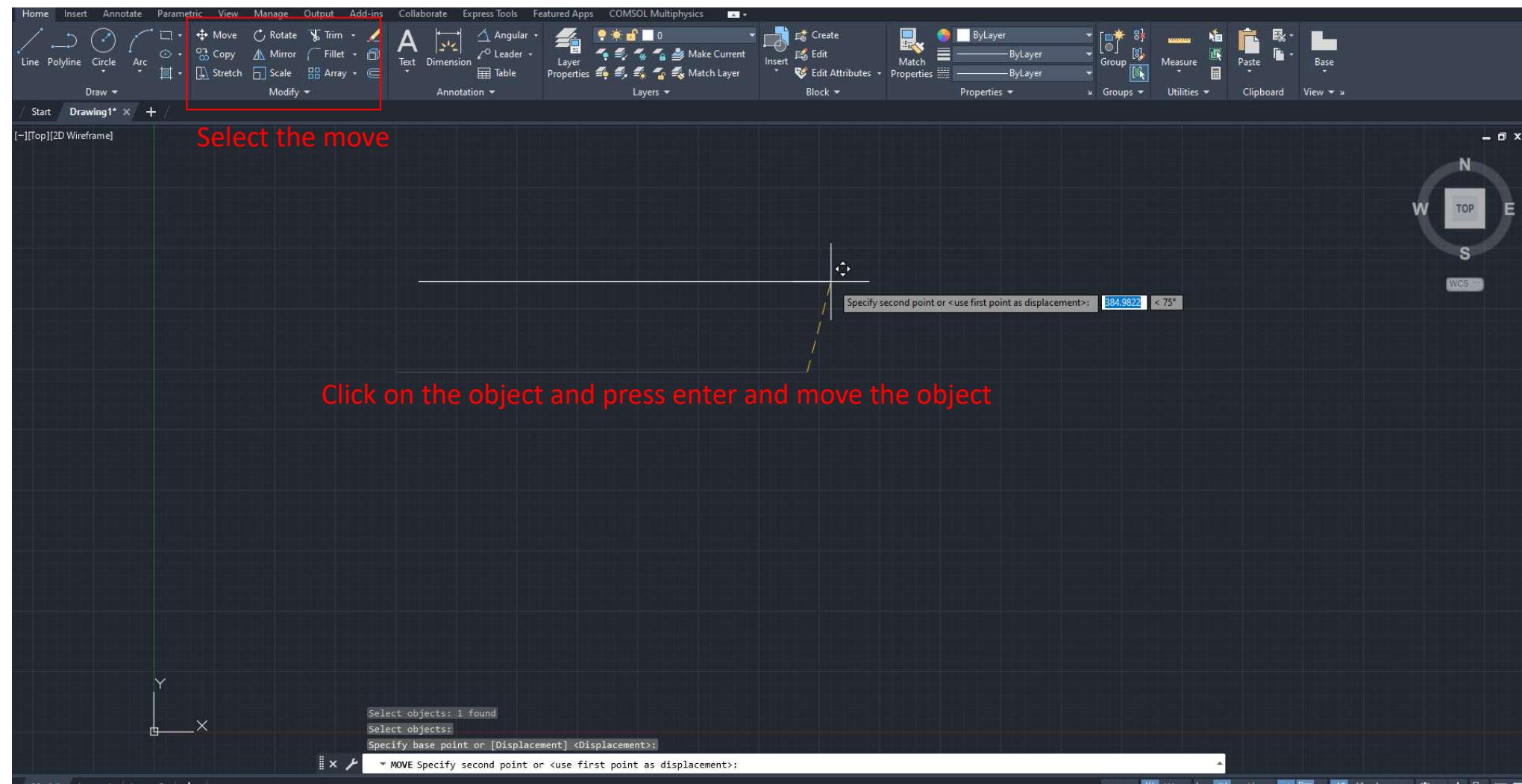


Modify the Objects in AutoCAD

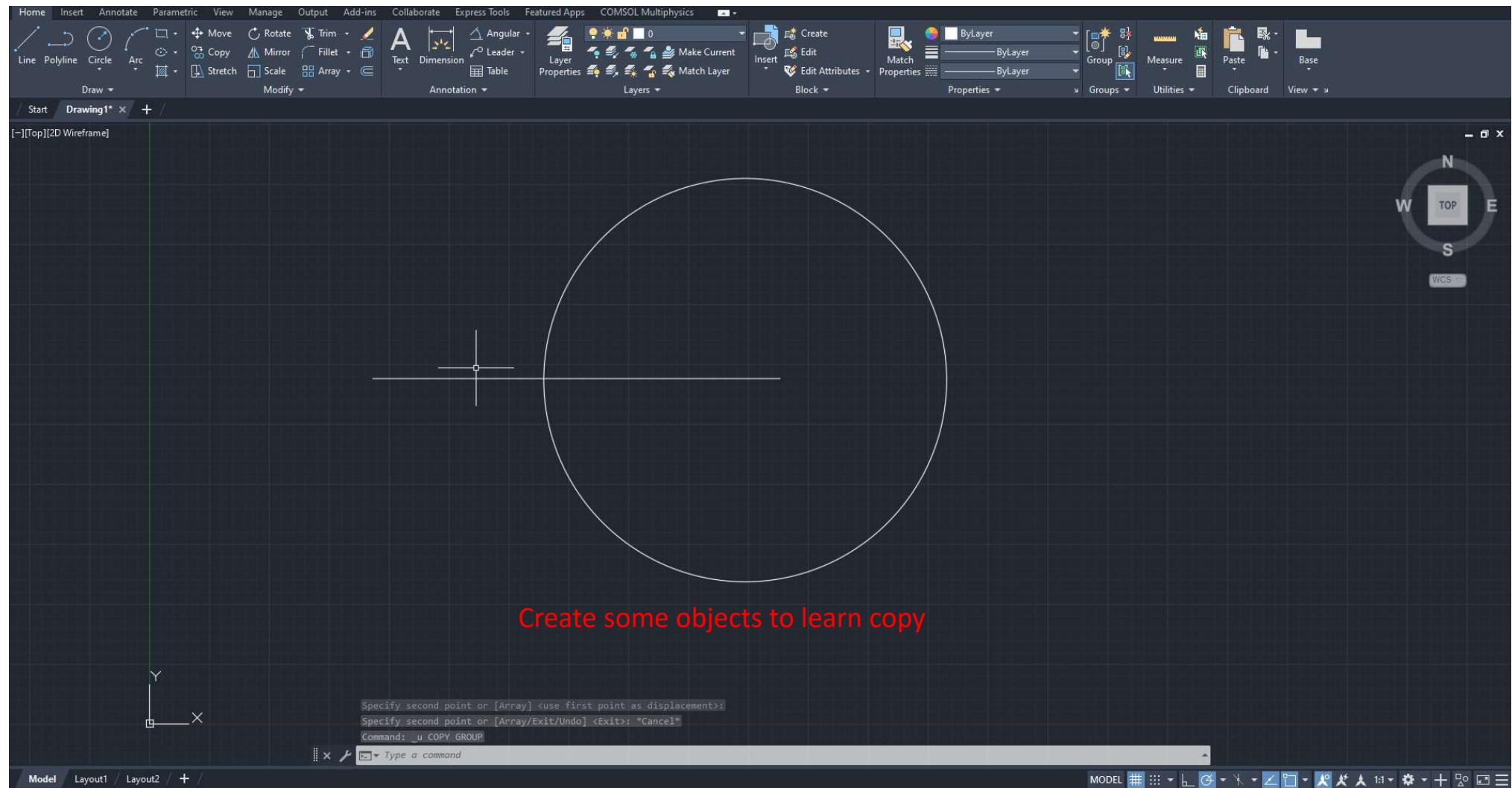
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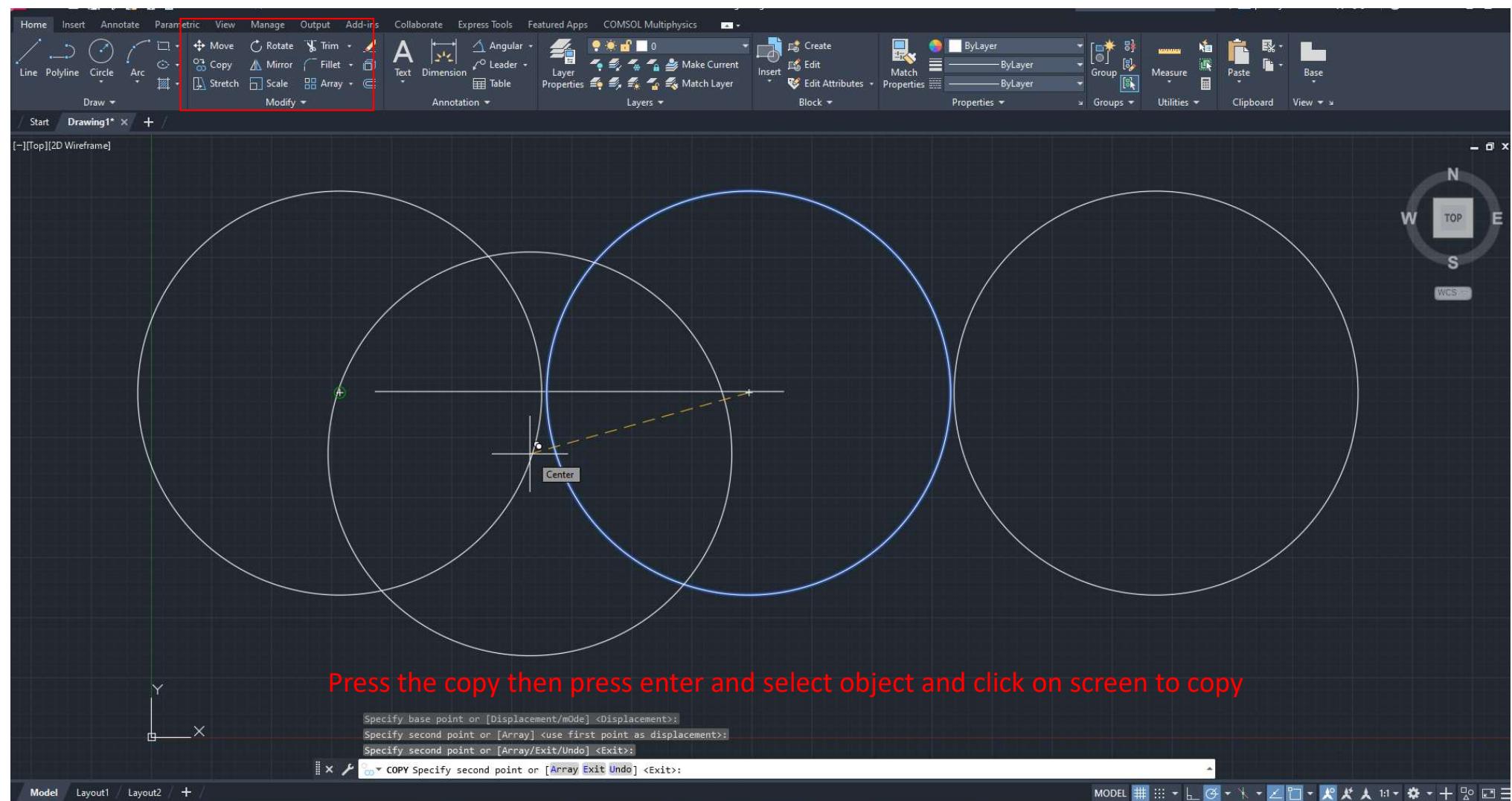


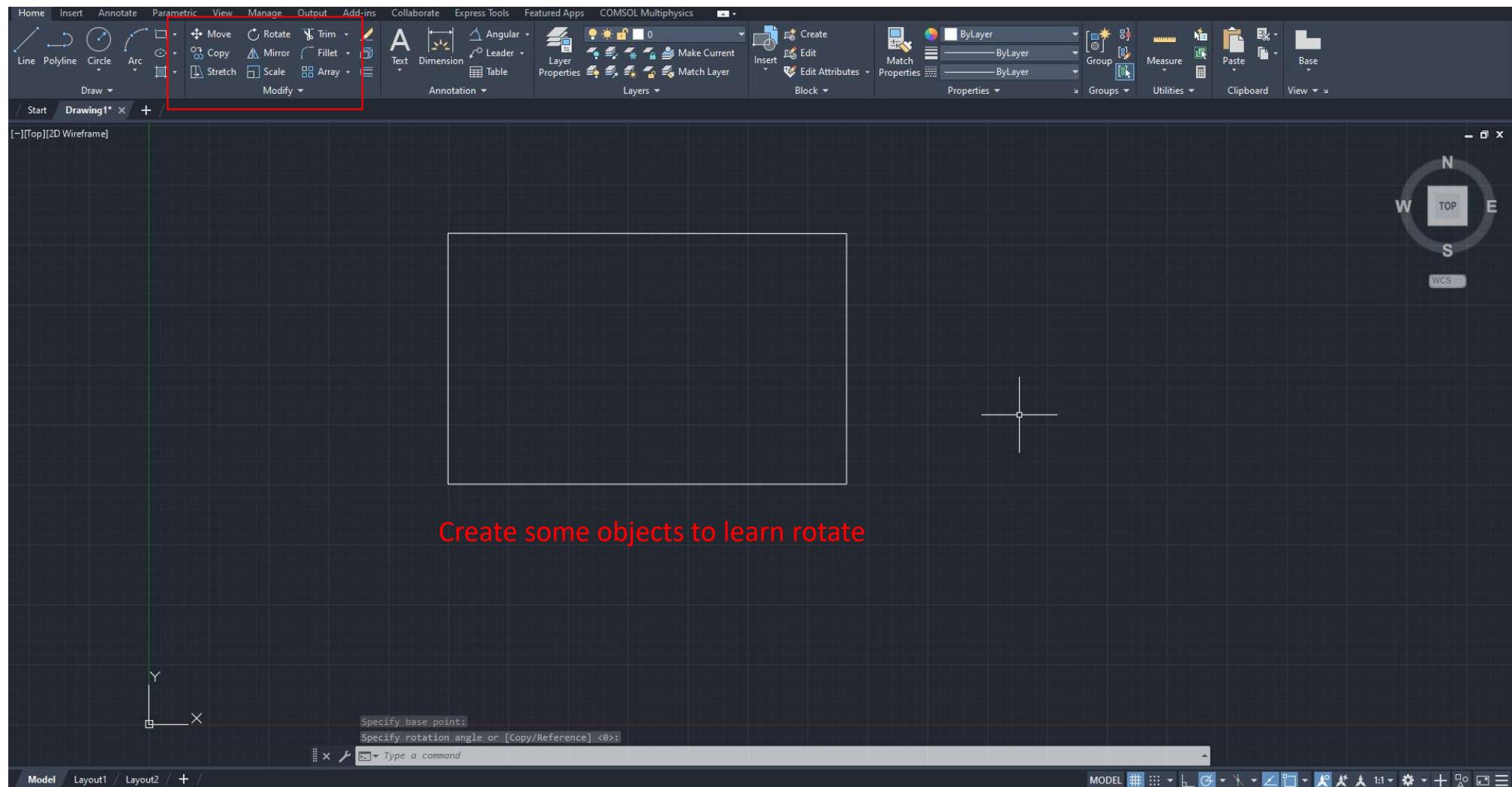
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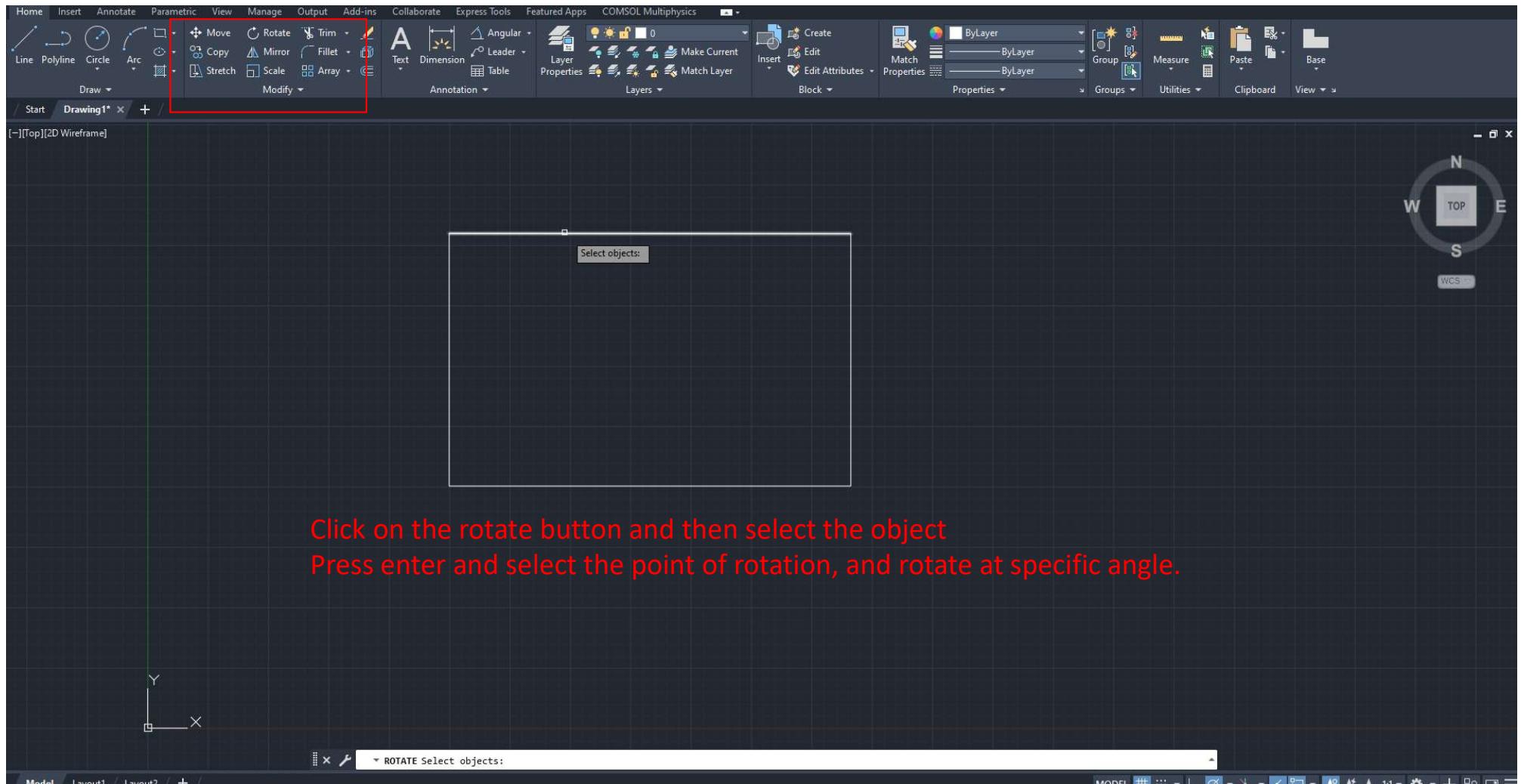
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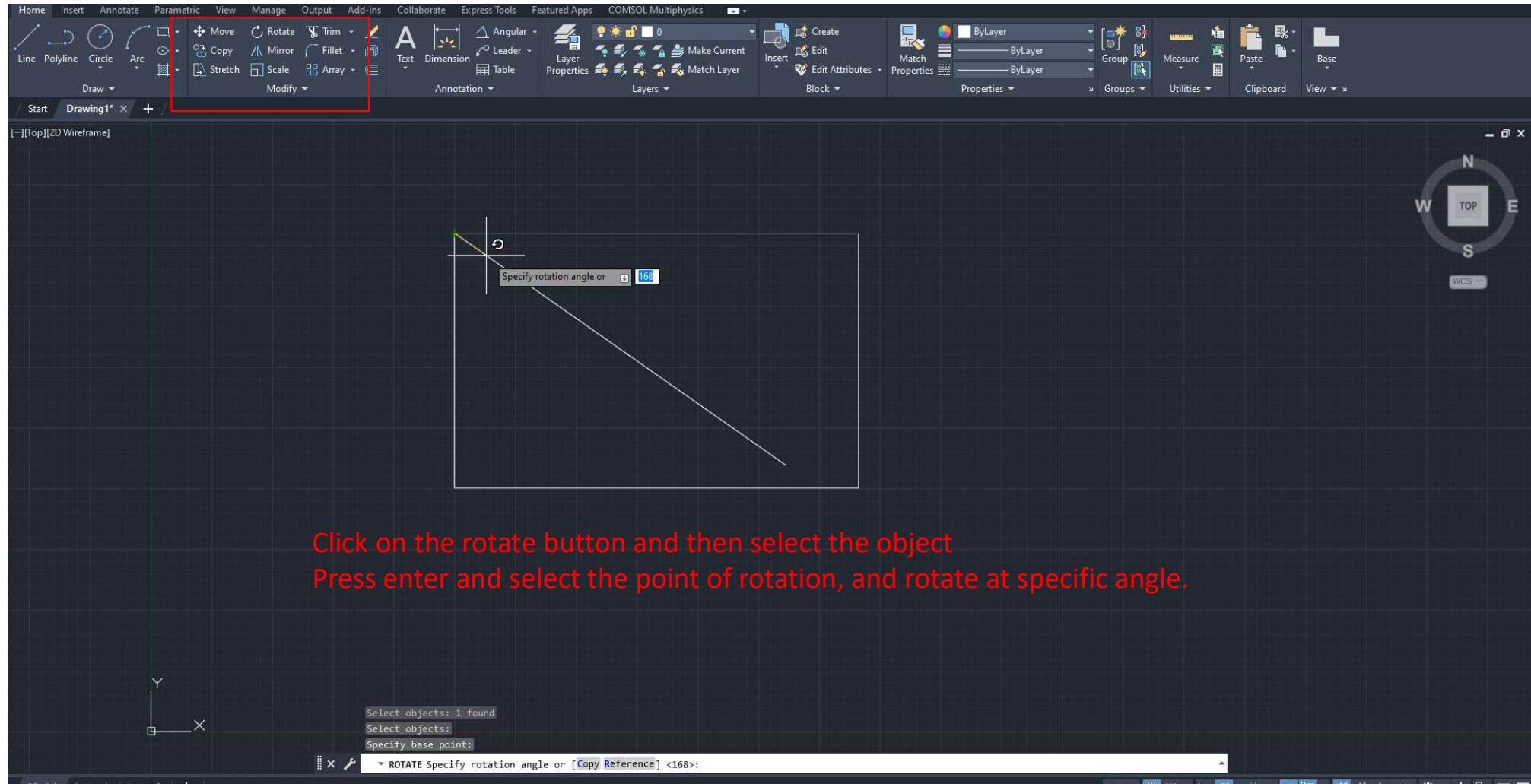




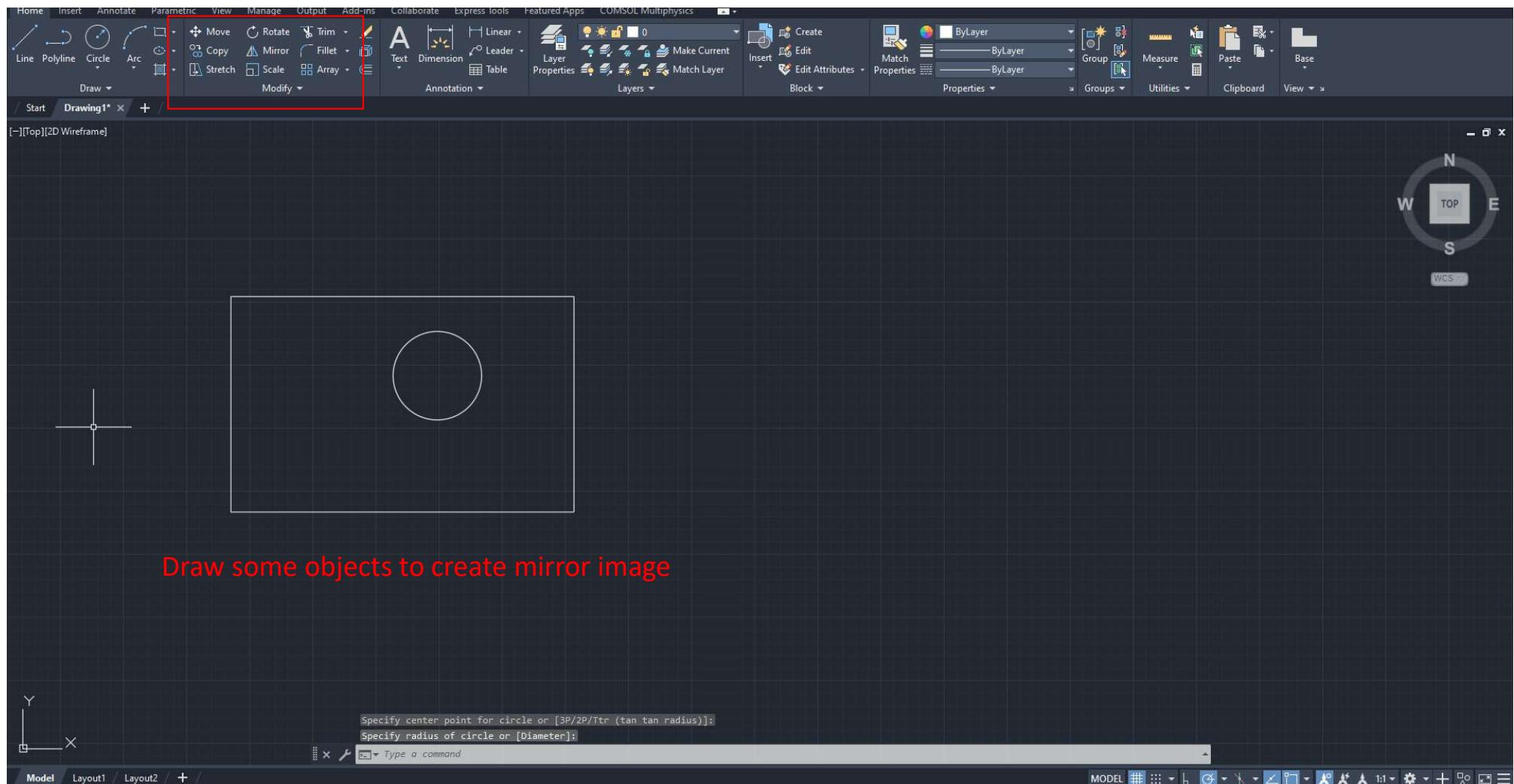


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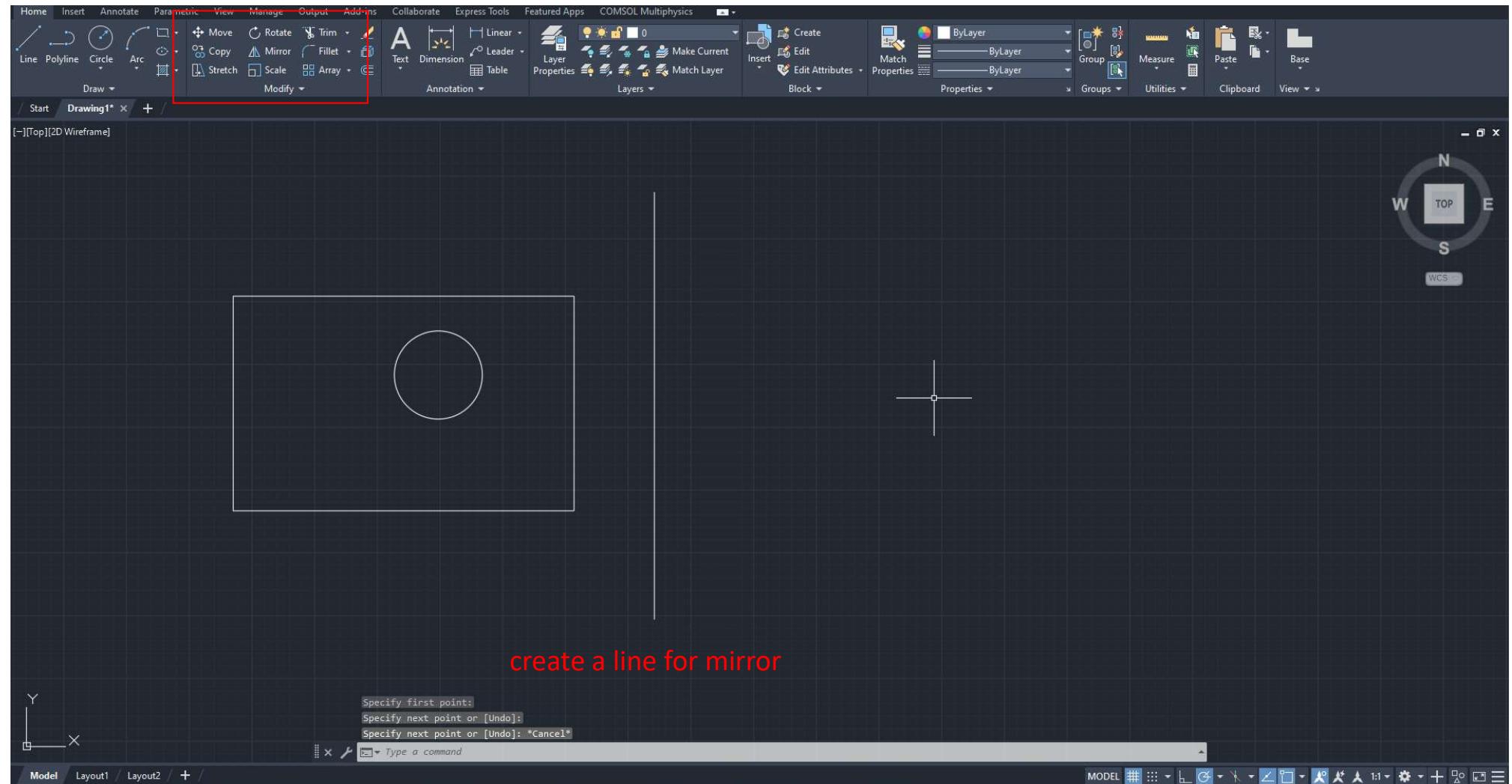


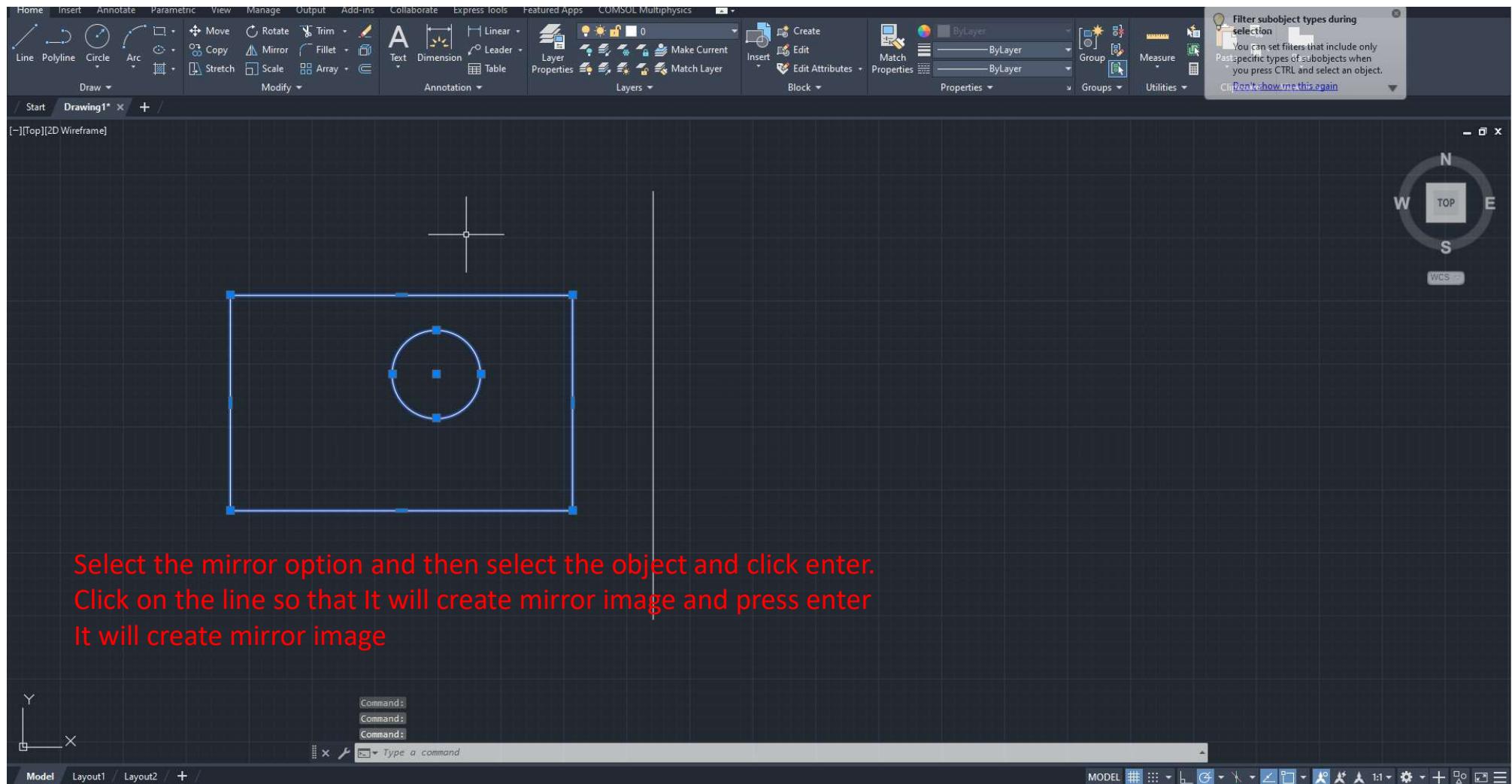
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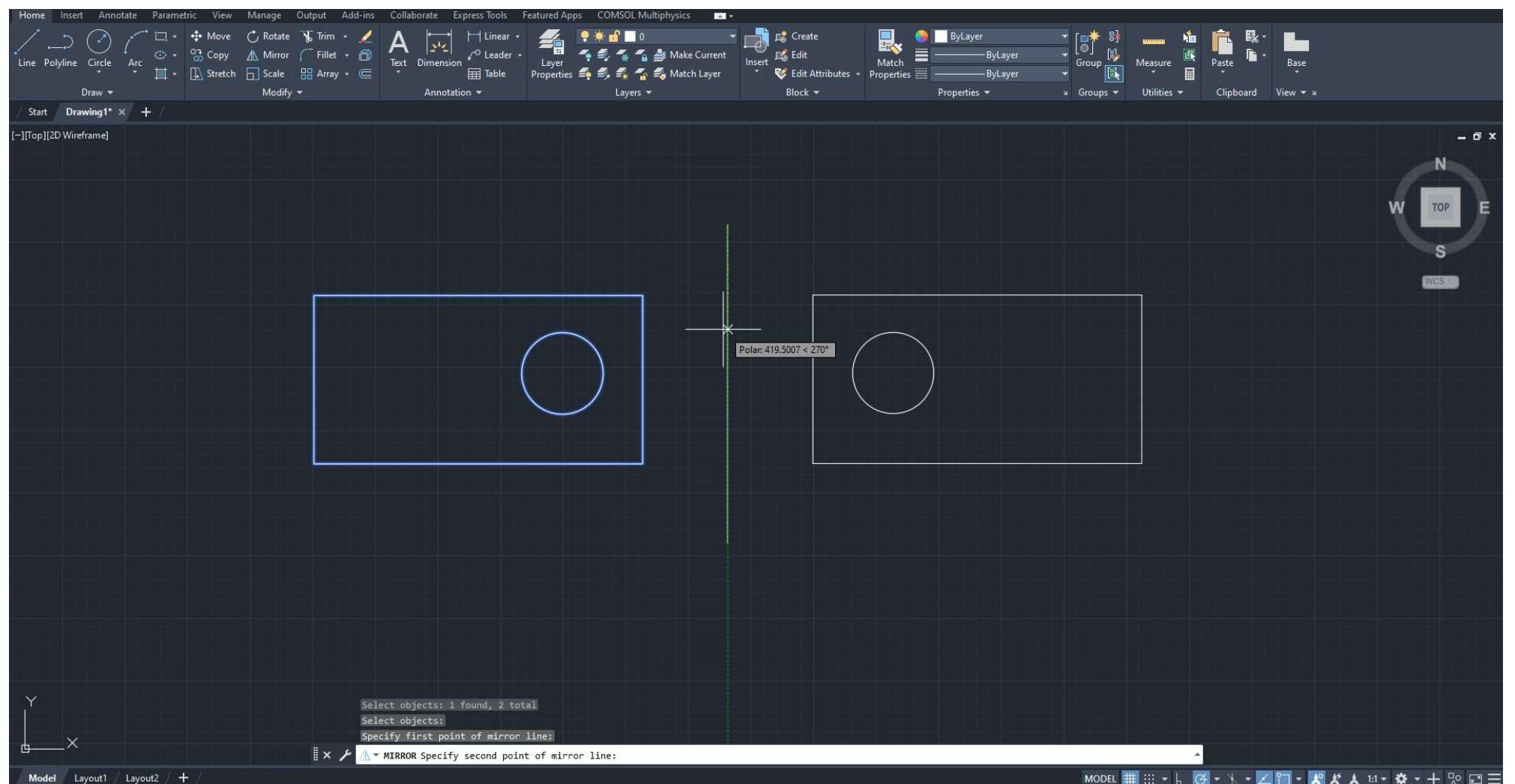


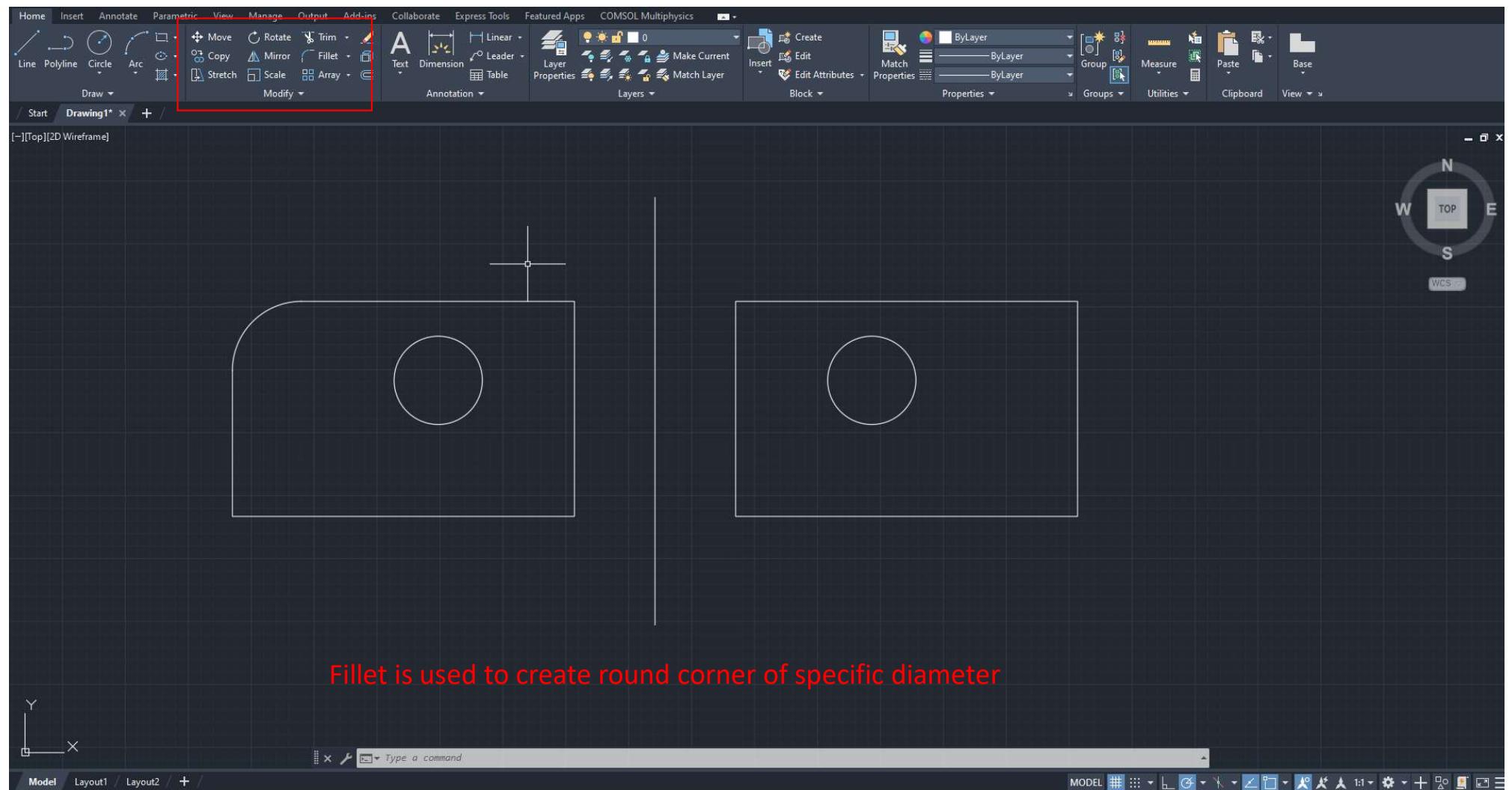
Draw some objects to create mirror image

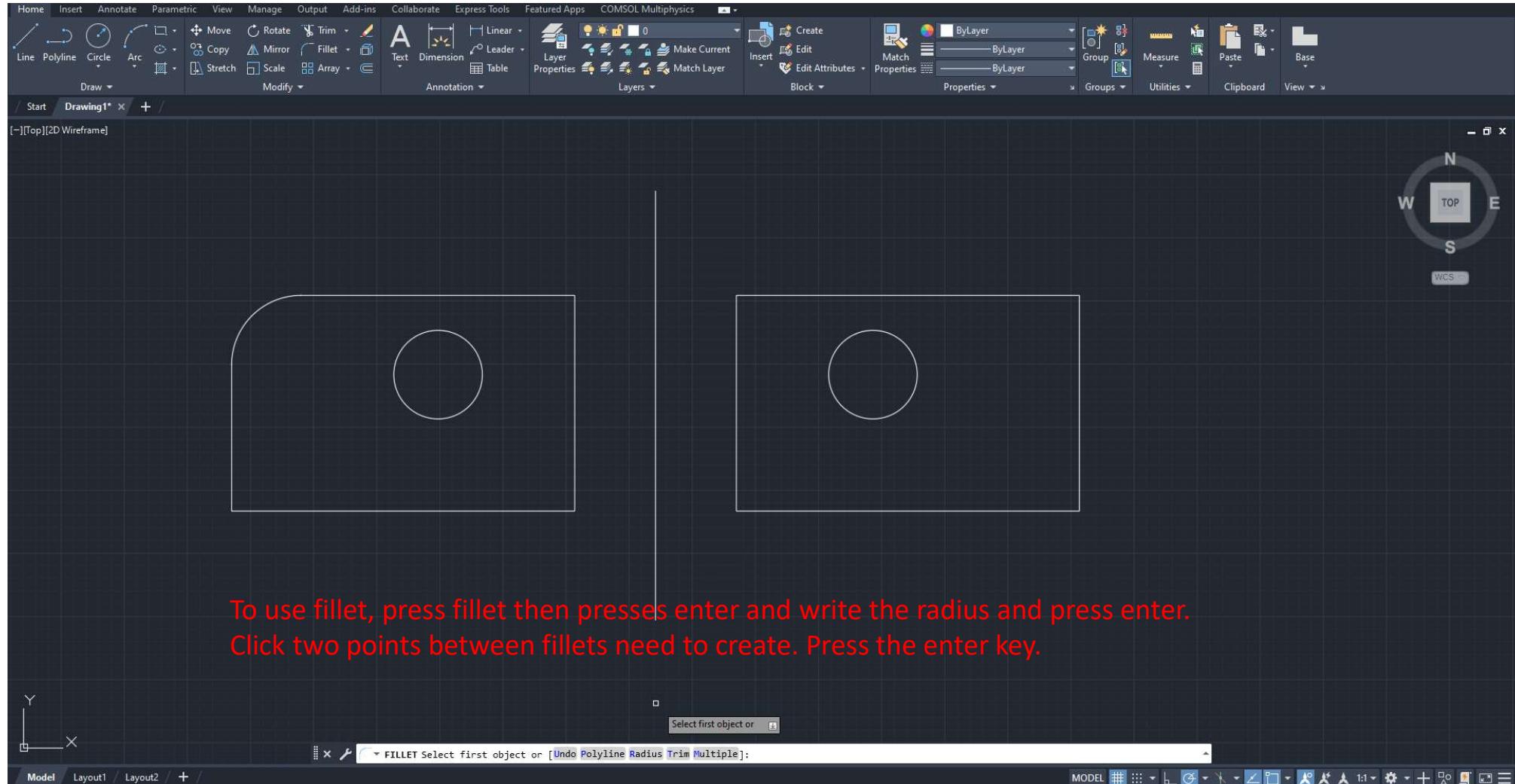
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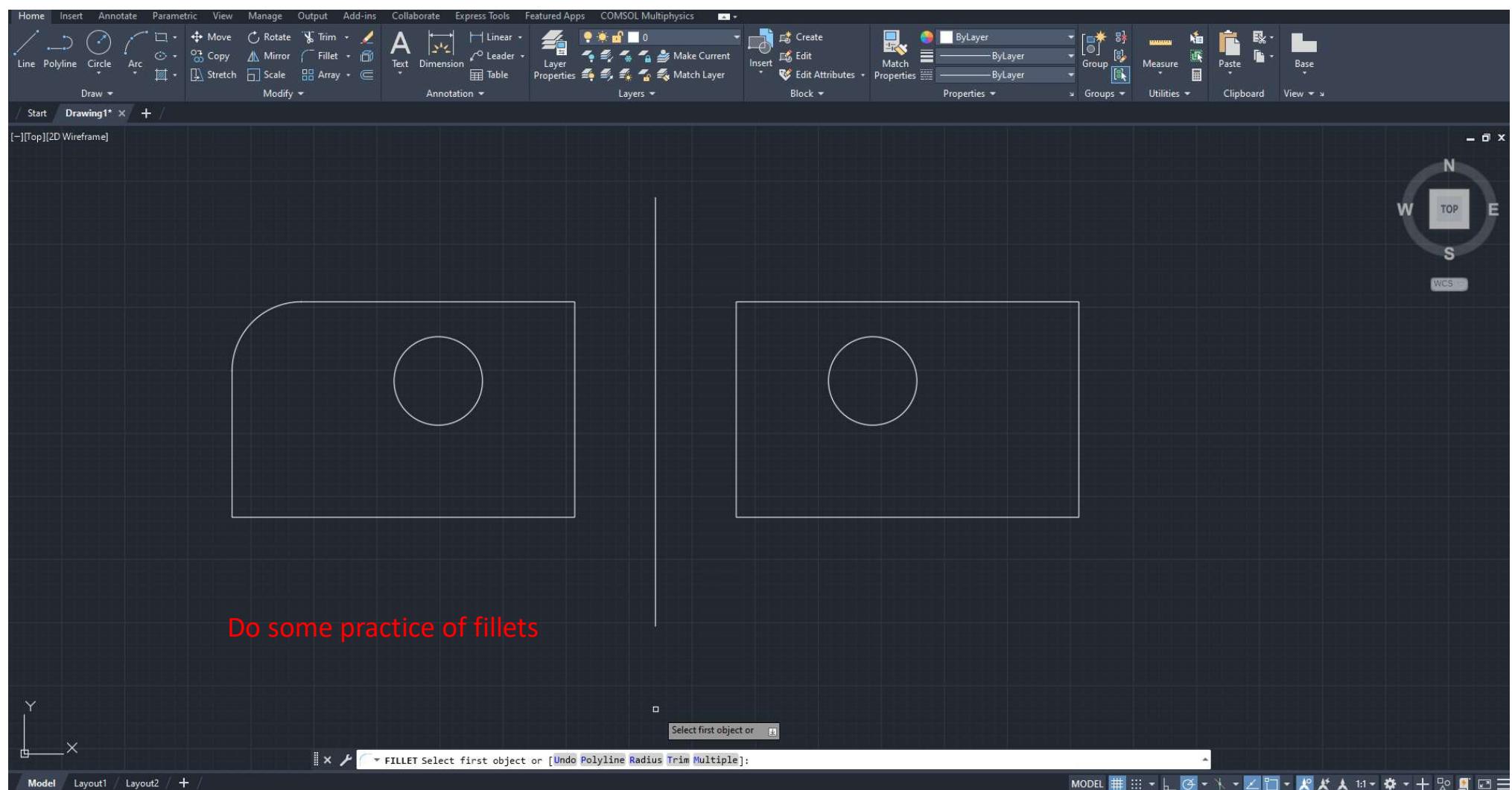


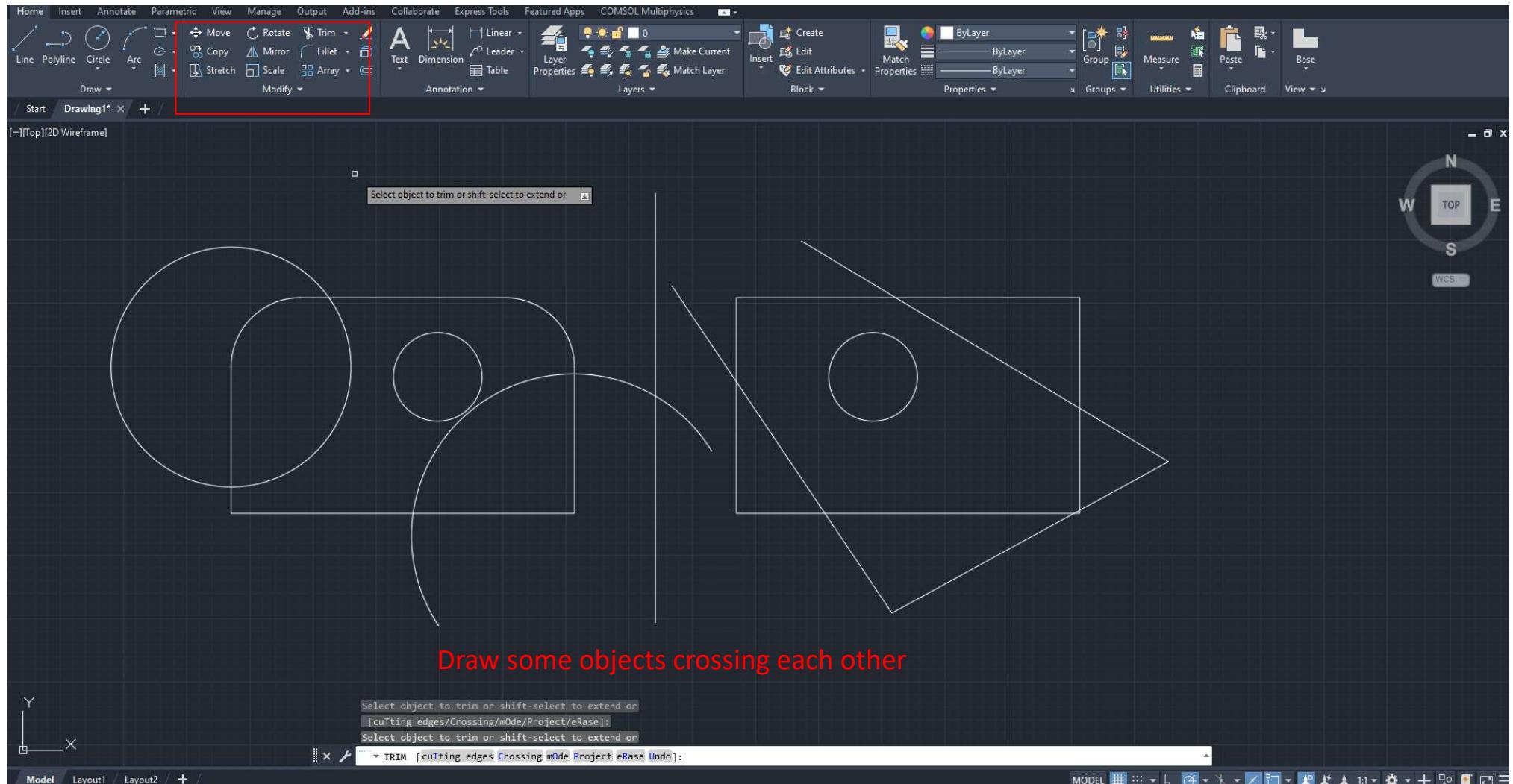


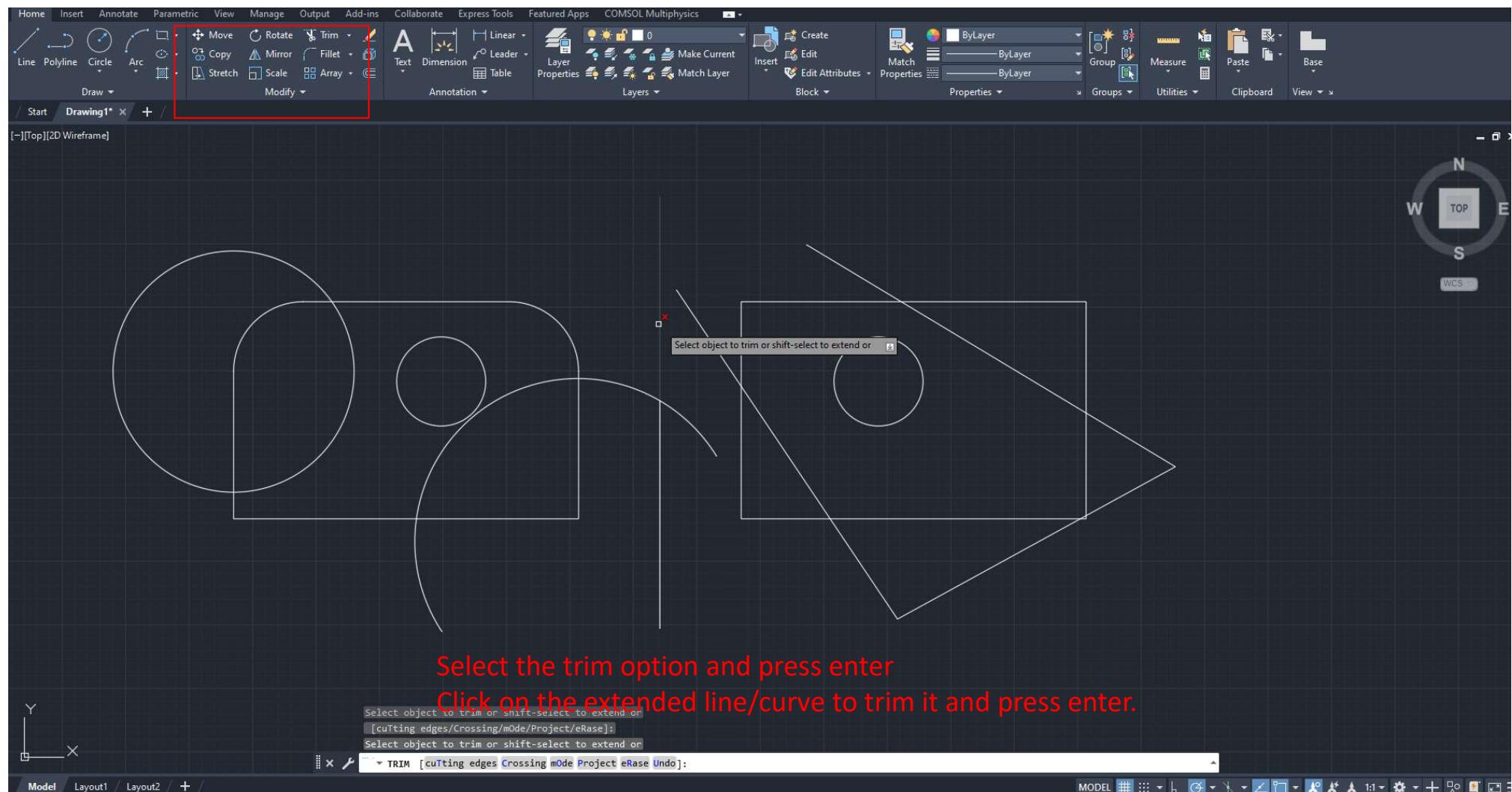




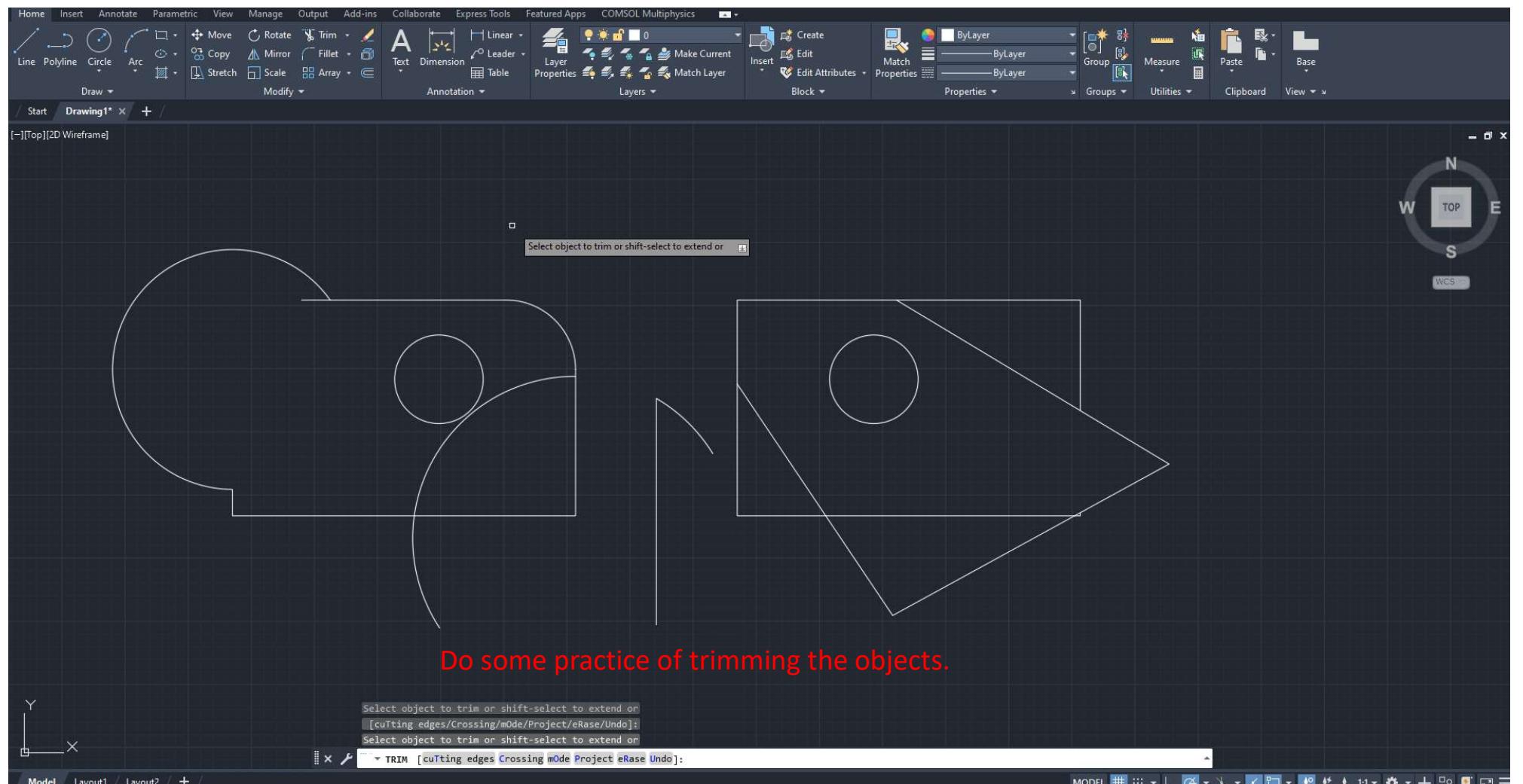
To use fillet, press fillet then presses enter and write the radius and press enter.
Click two points between fillets need to create. Press the enter key.

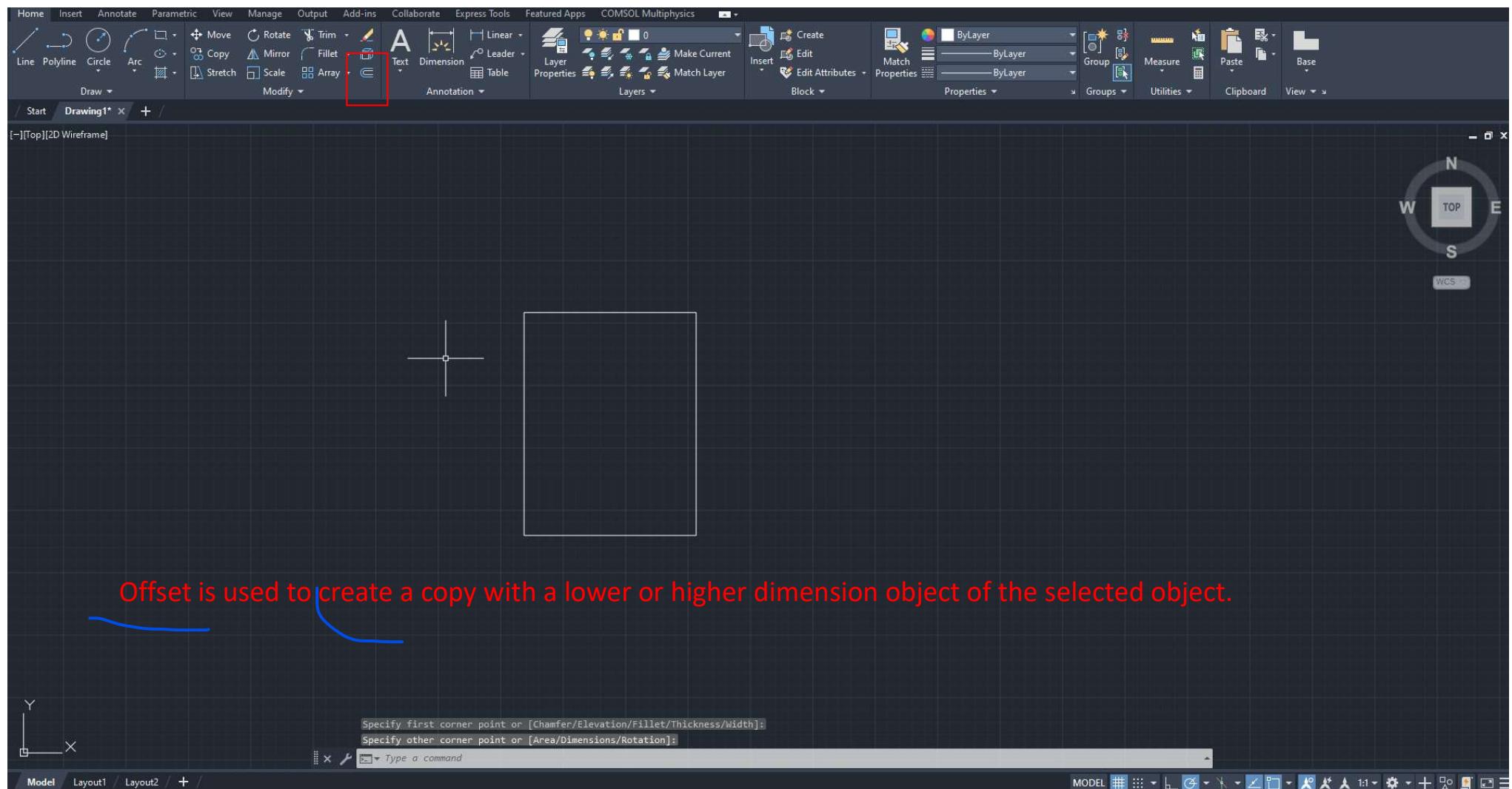


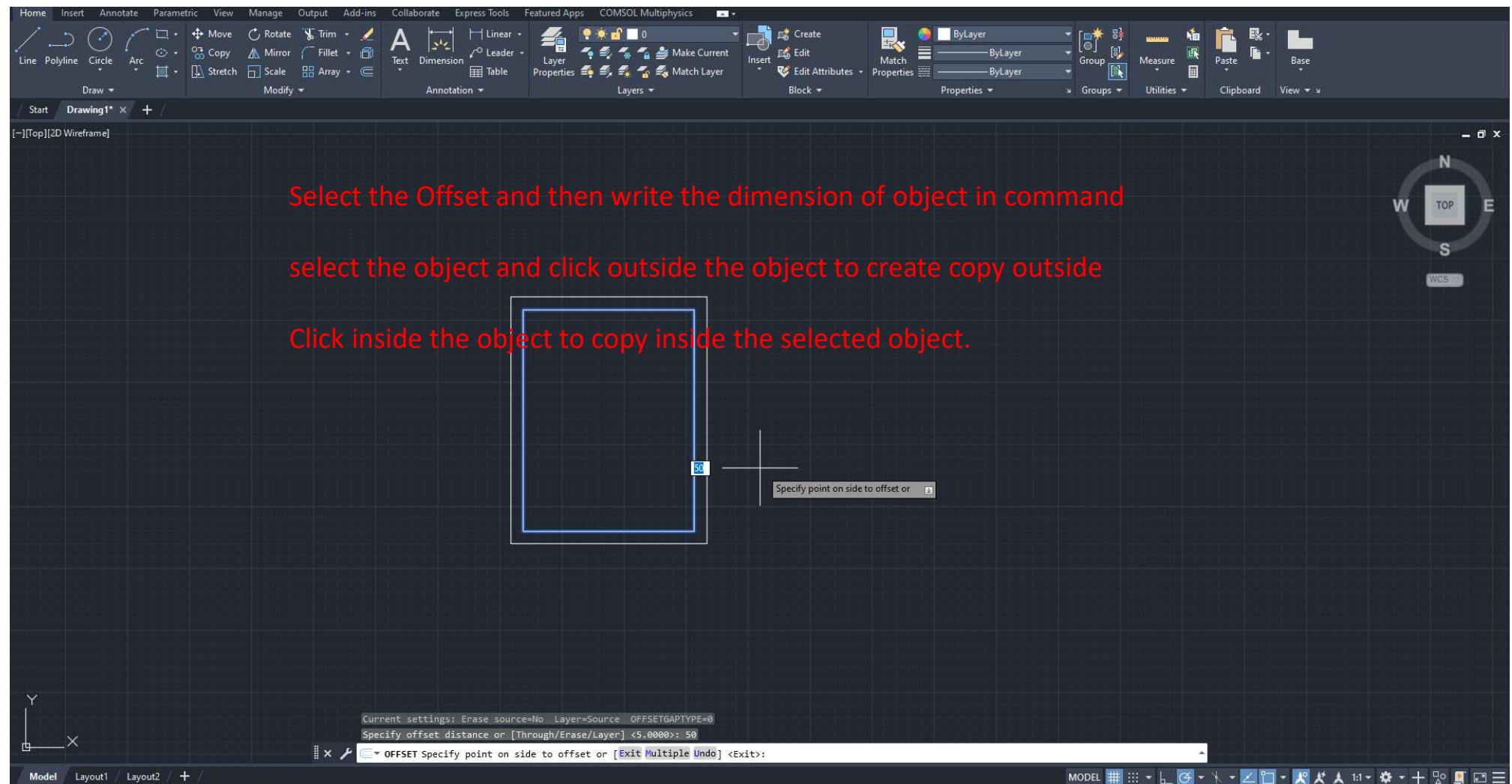




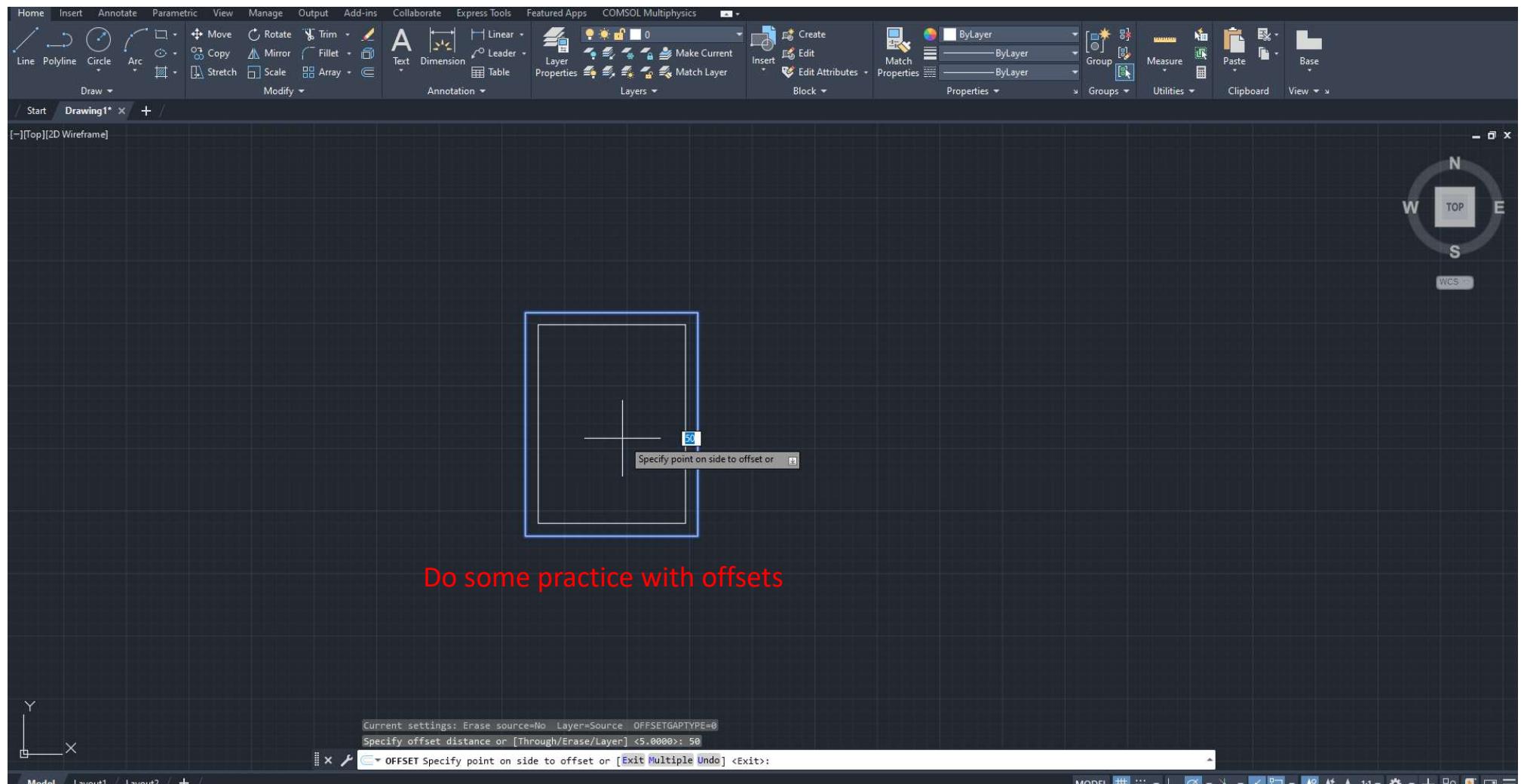
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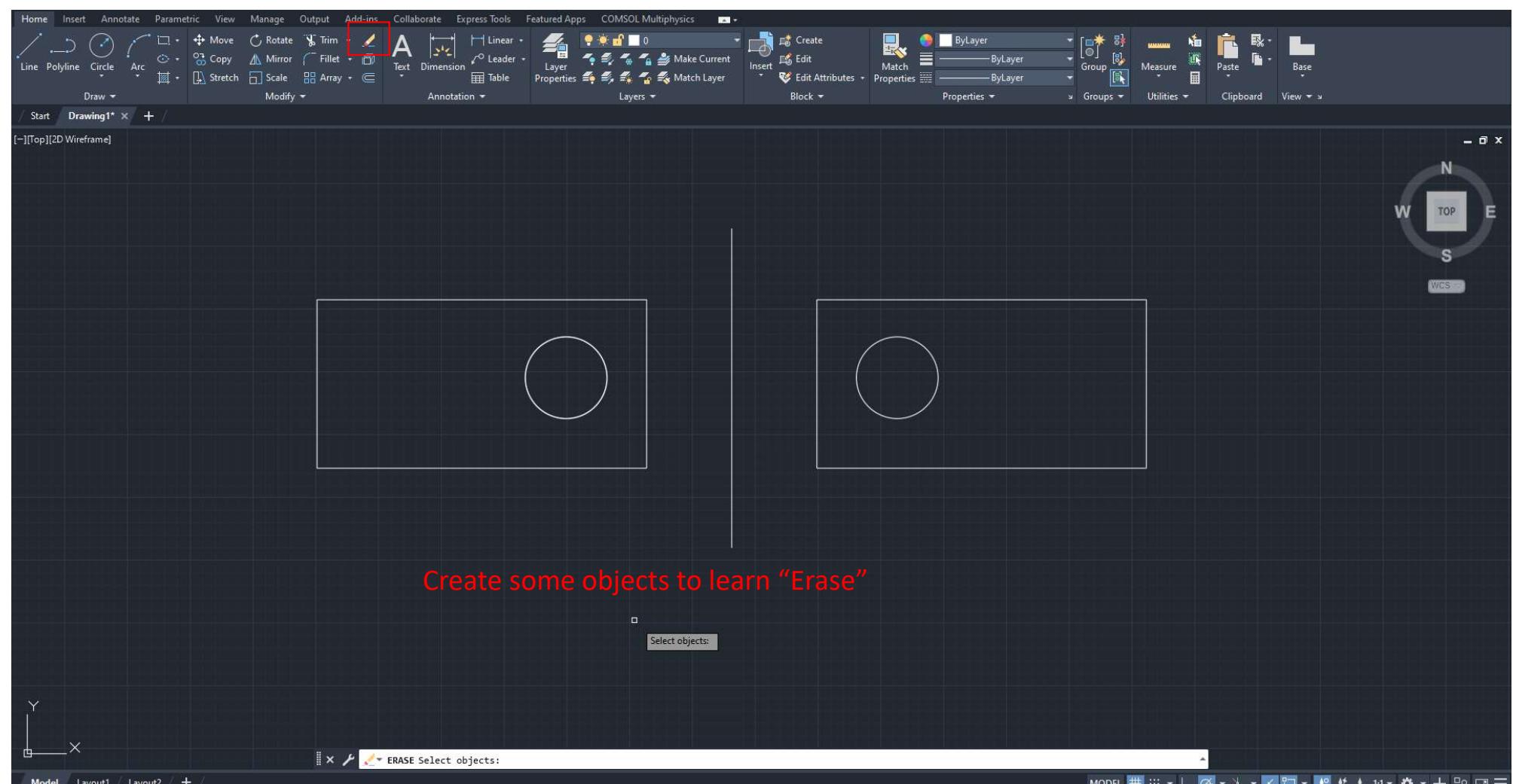


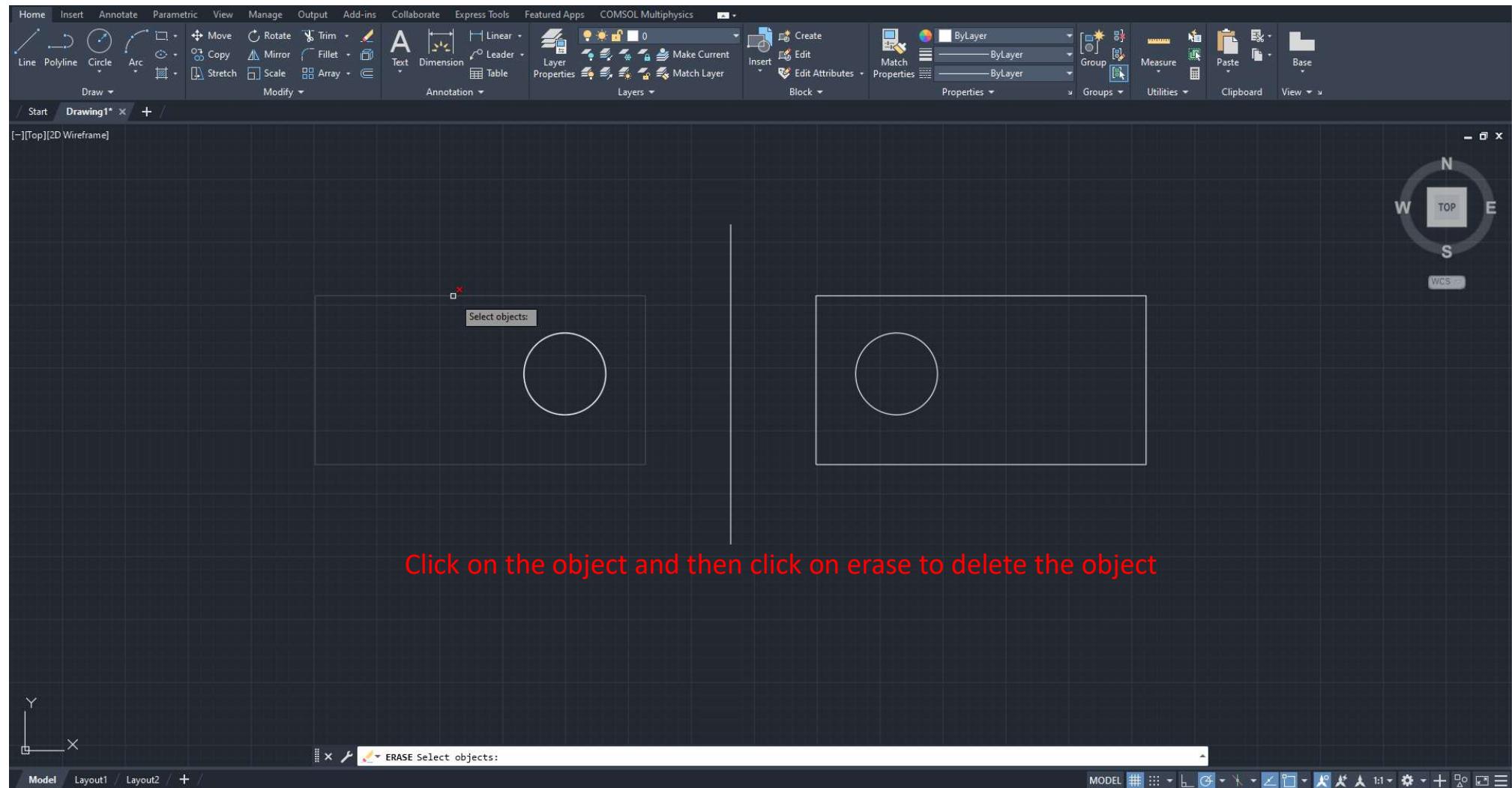


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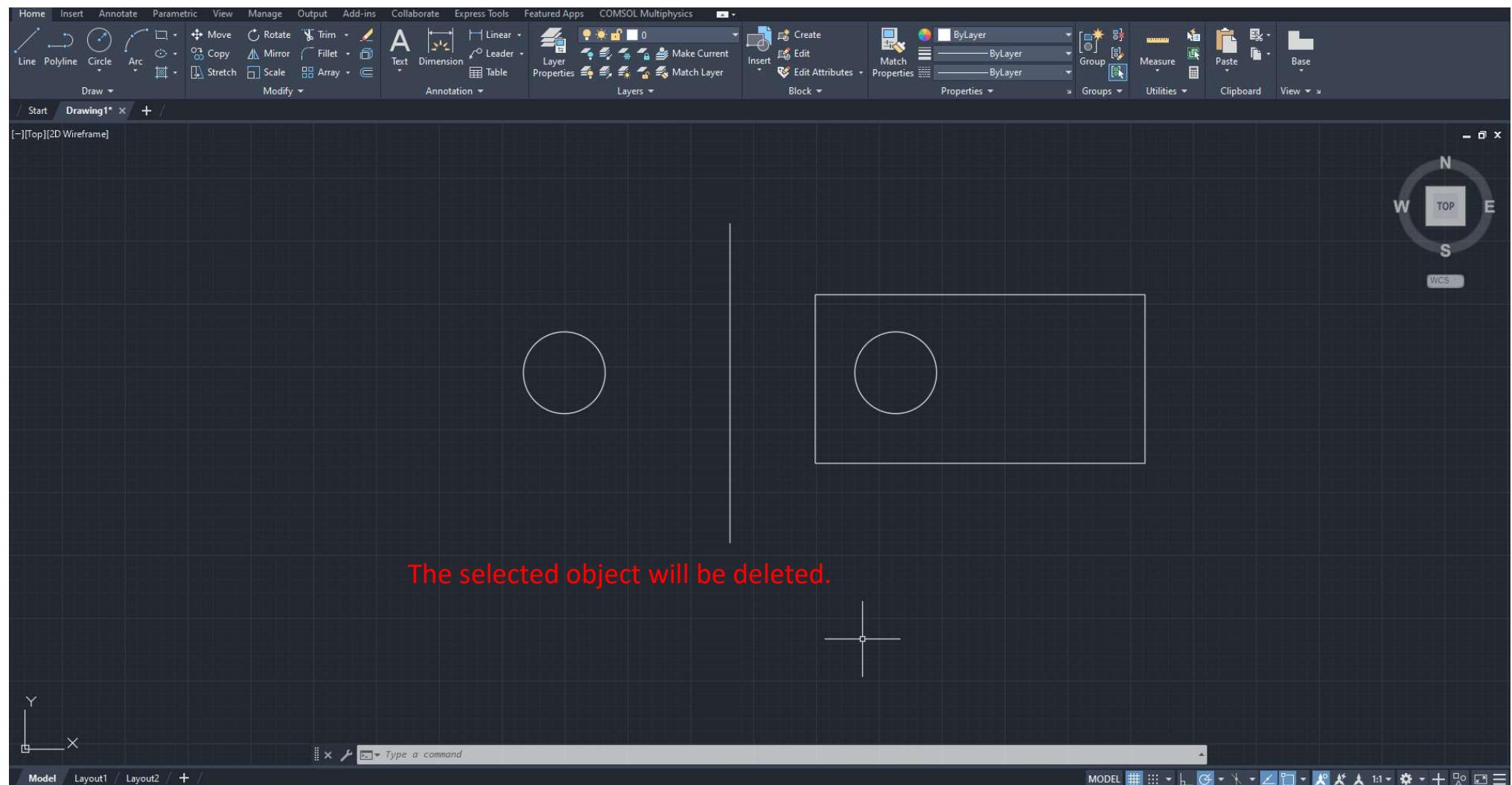


Do some practice with offsets



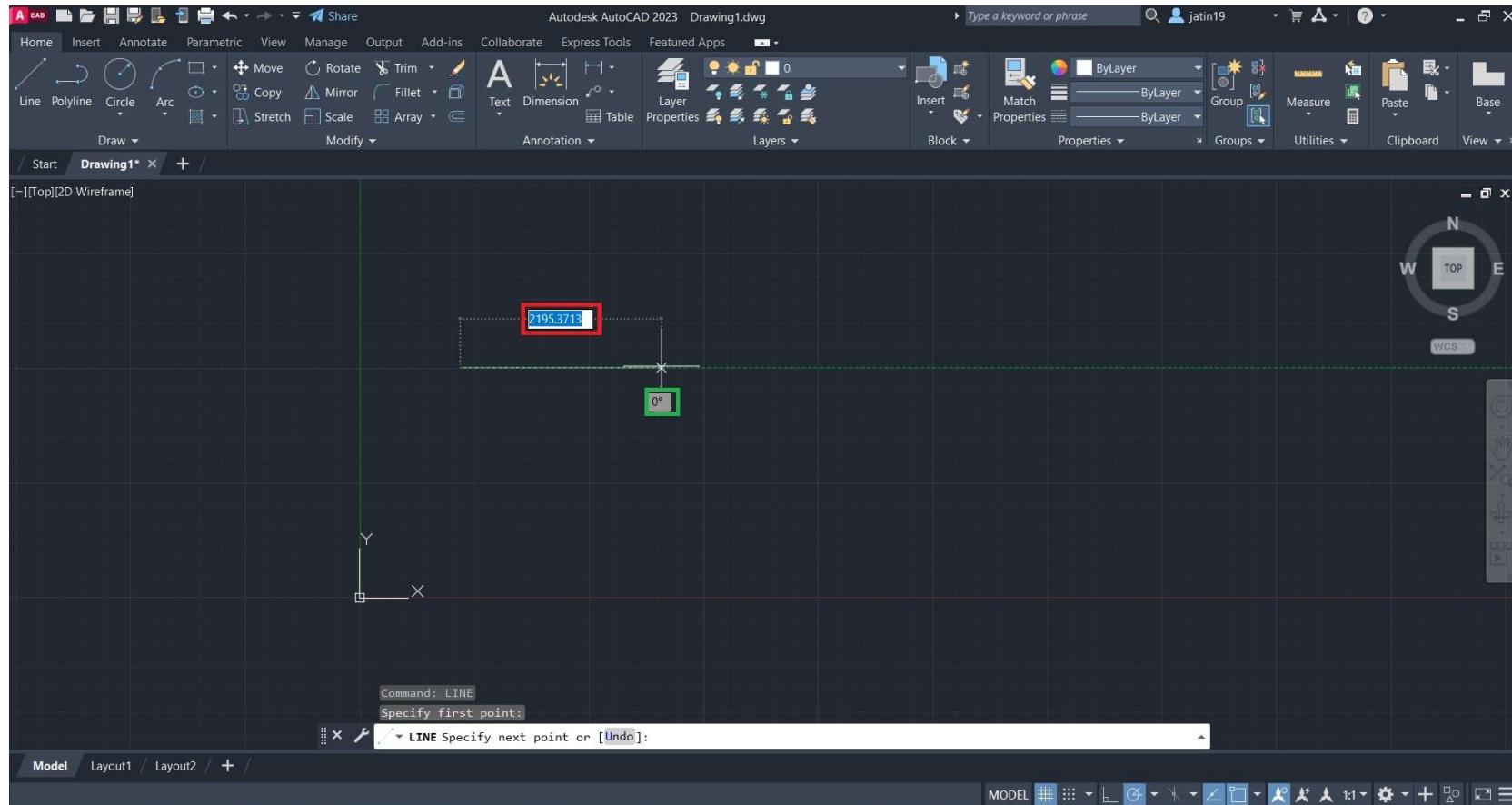


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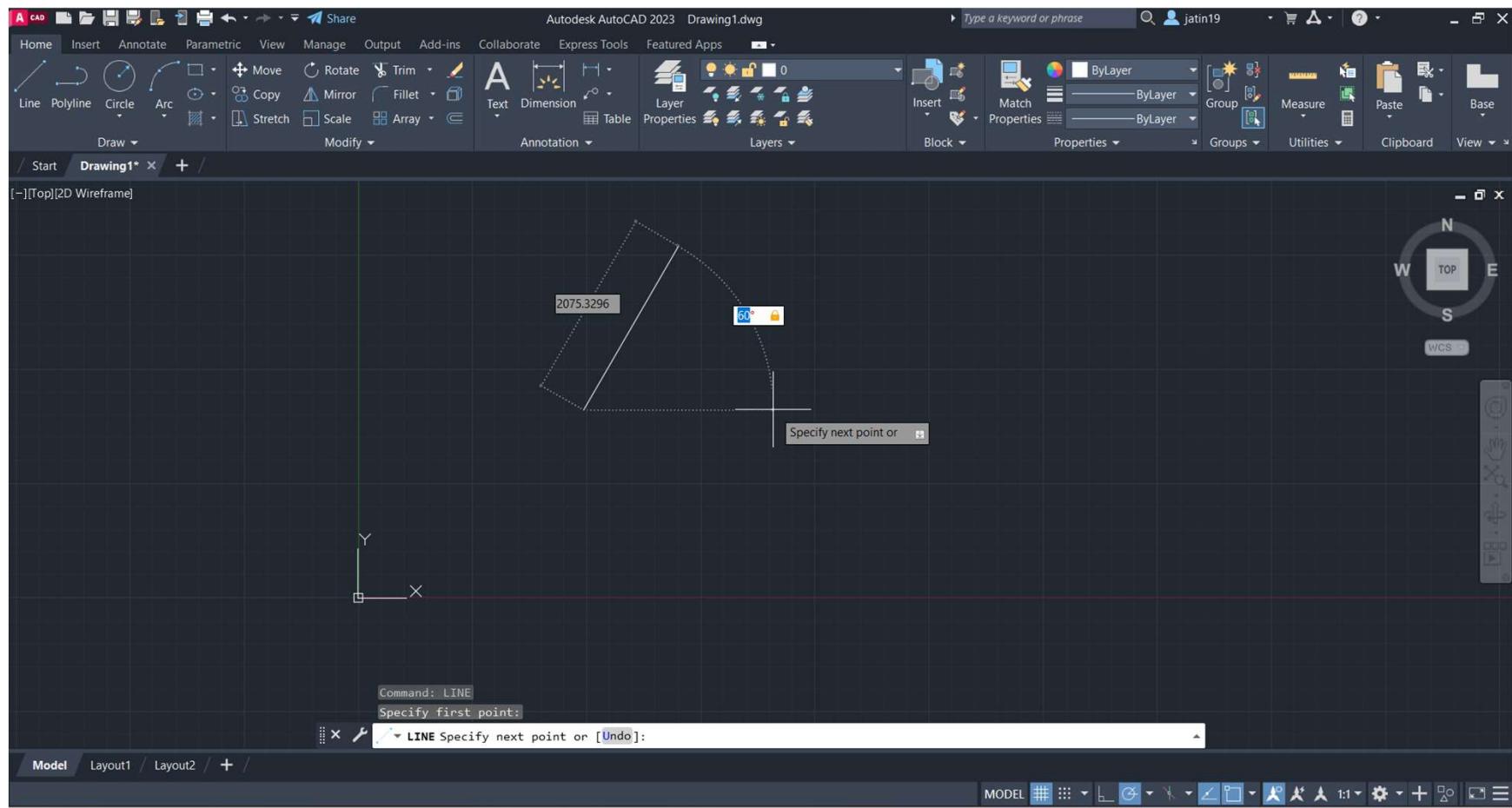


Entering the dimensions for a line

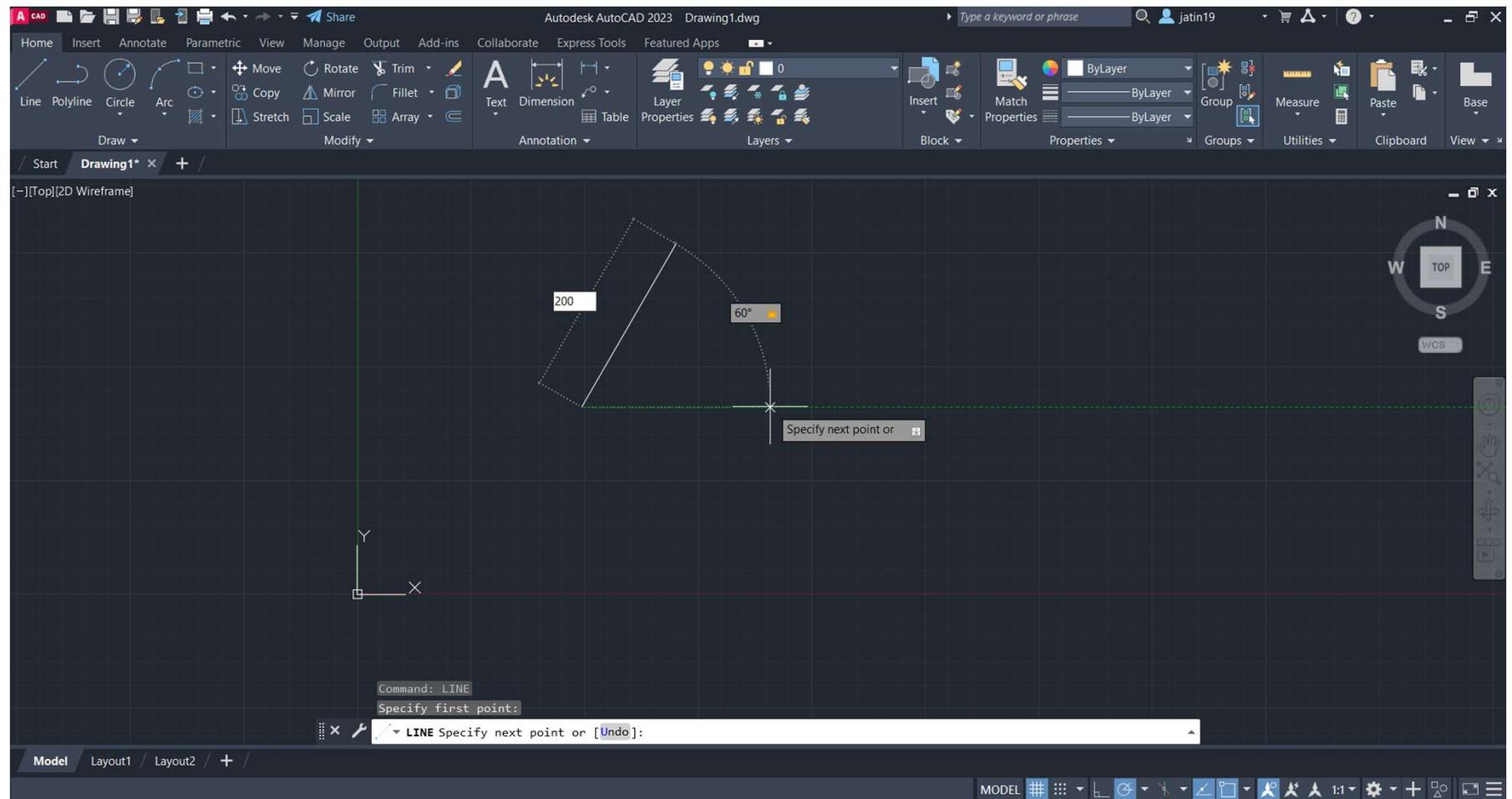


The red box is where you will enter the length of the line, and the green box indicates the angle the line makes with the x axis.

✓



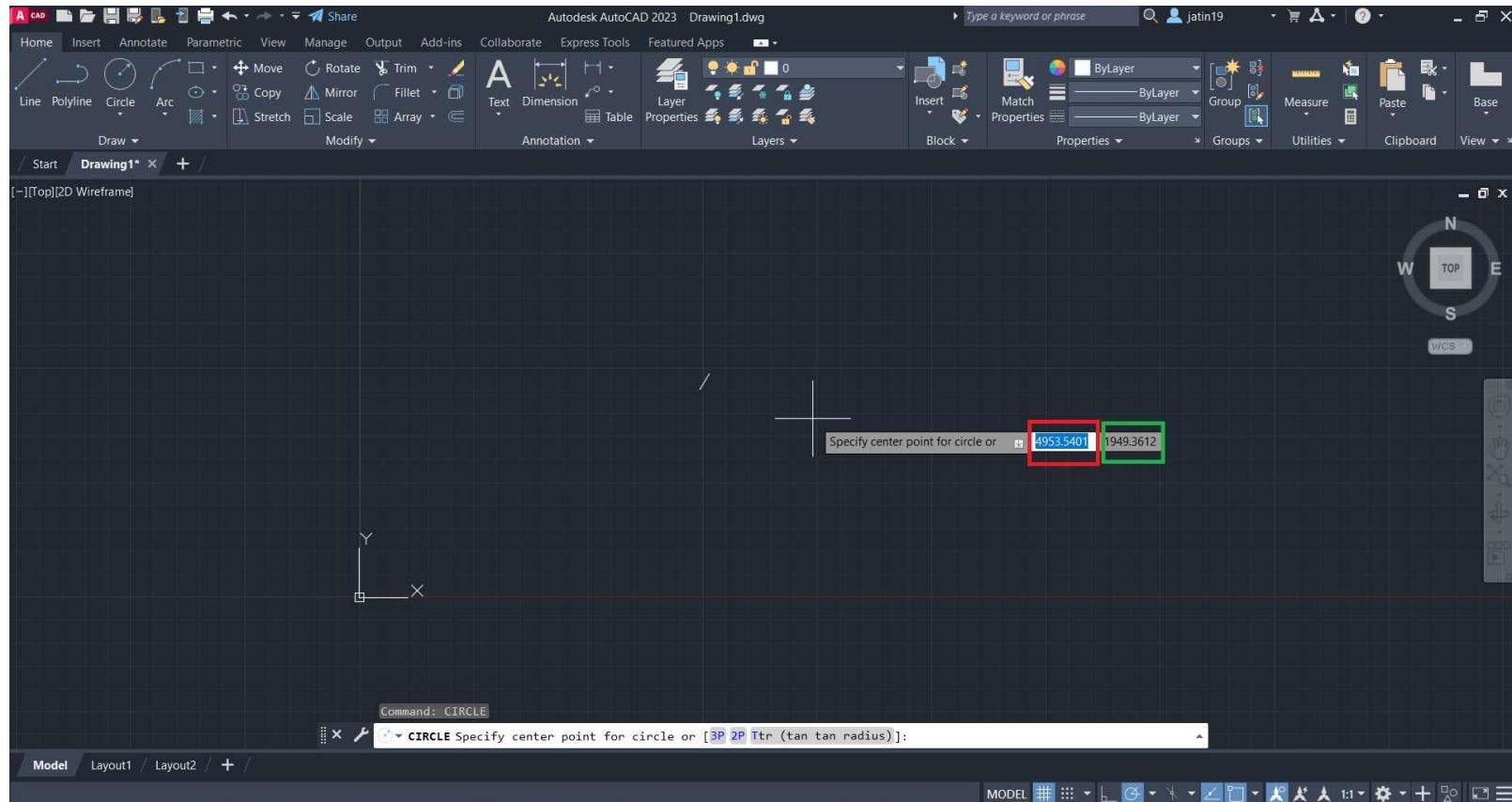
Press tab to switch to angle, now enter your angle (60 deg in this case).



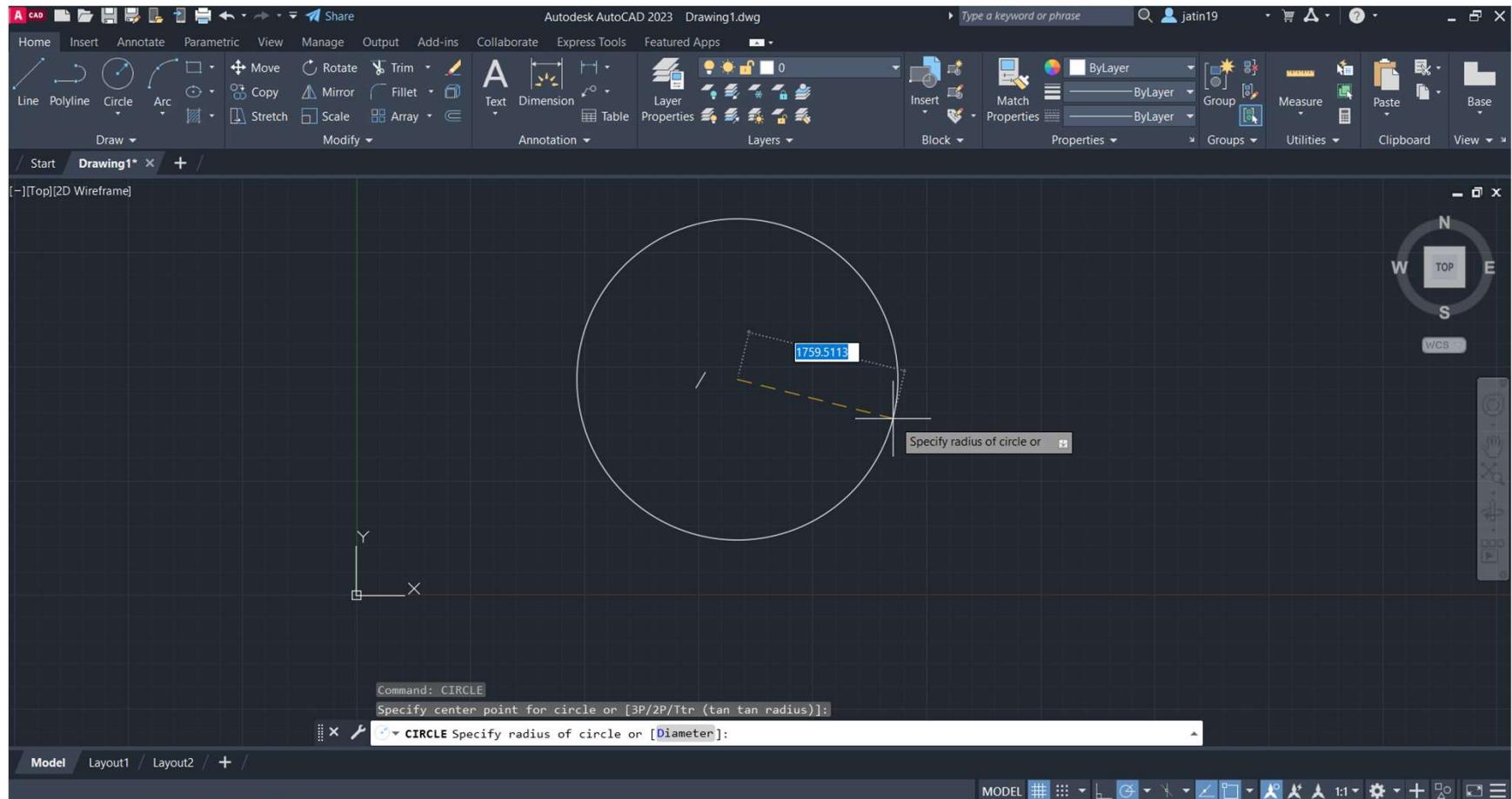
Press tab again to switch back to length, and enter the required length of the line (200 here). Now press enter to make the line with length 200 and angle 60 deg.



Entering dimensions for a circle

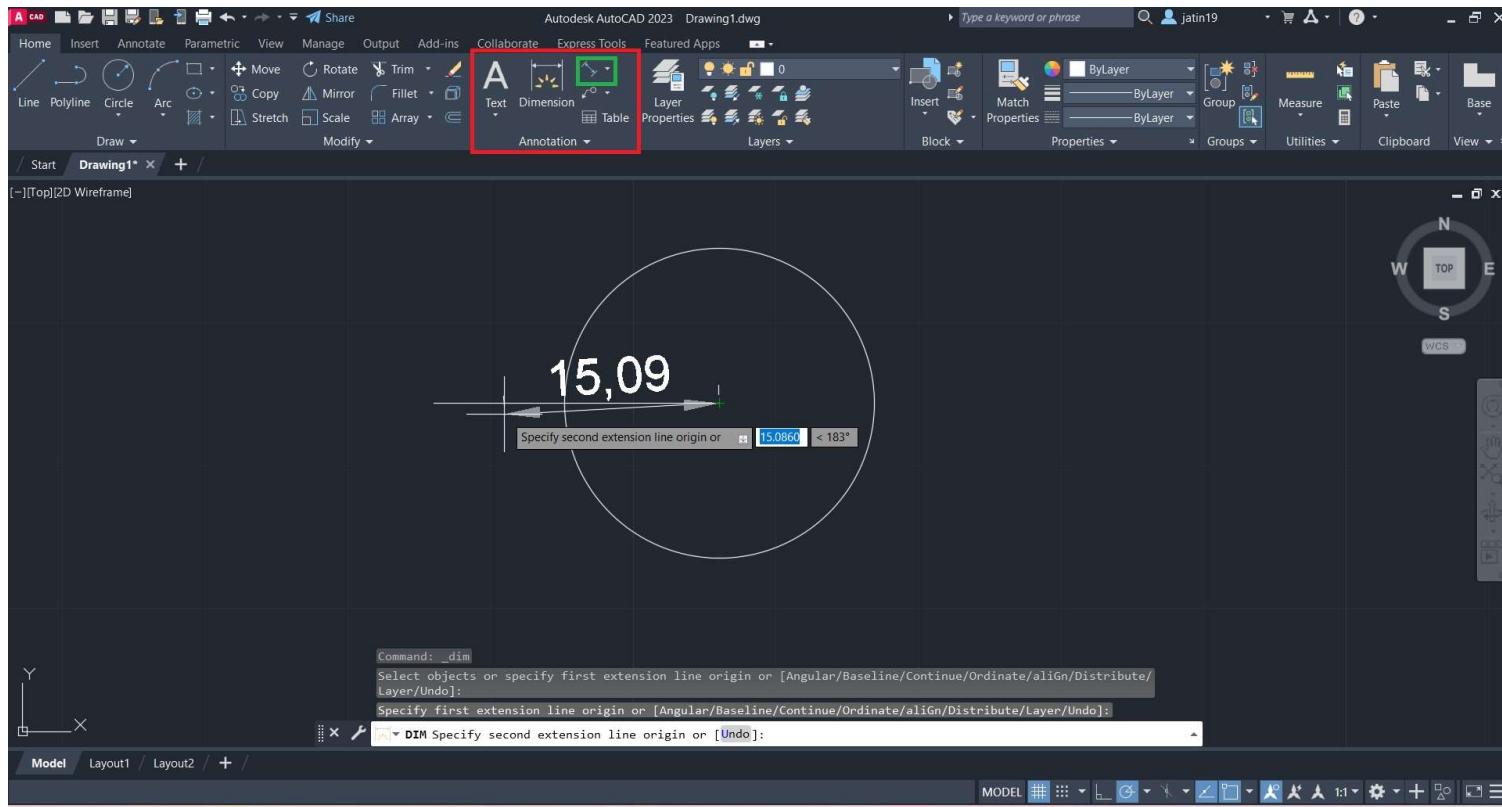


Select circle from the draw panel, you will get an interface like this. The red box is the x coordinate and green box is the y coordinate of the centre of the circle. Press tab to switch between them and enter your desired x and y values, when done press enter to fix the centre of the circle

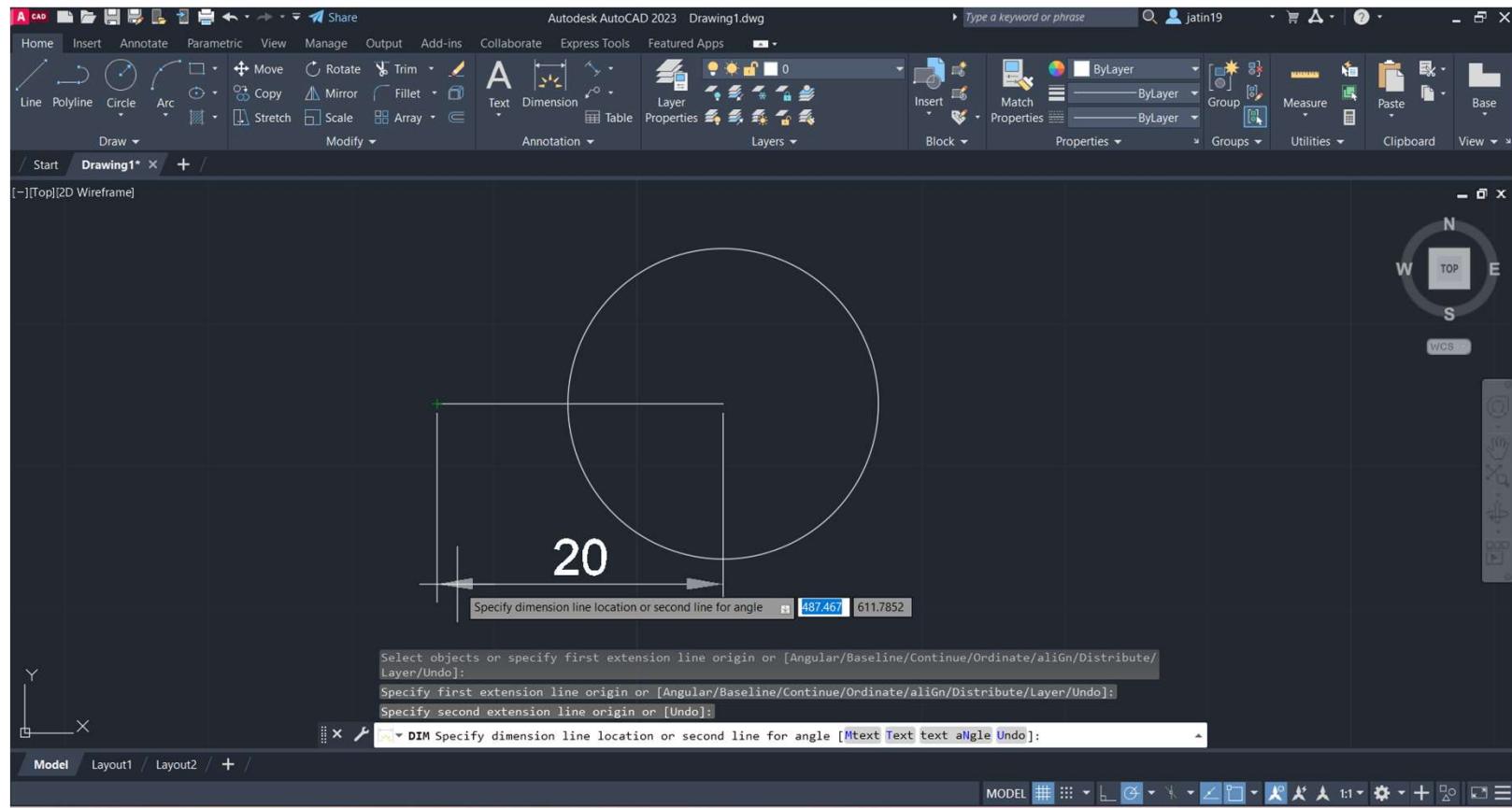


After selecting the centre of the circle, you will then set the radius of the circle, the highlighted value in the above image is the projected radius of the circle, you can enter the value of the radius that you want. Now press enter to create the desired circle.

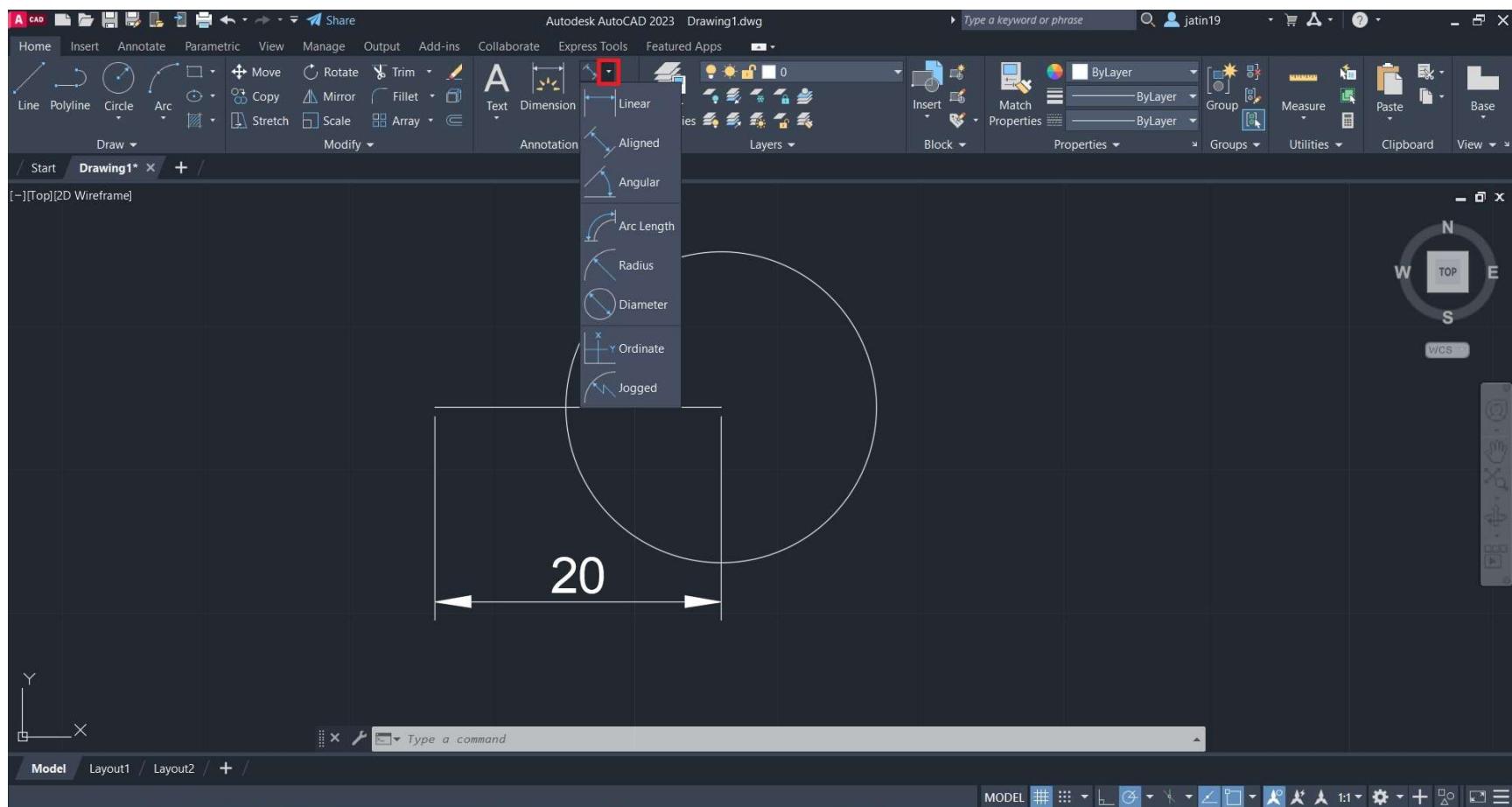
Entering dimension labels in your drawing



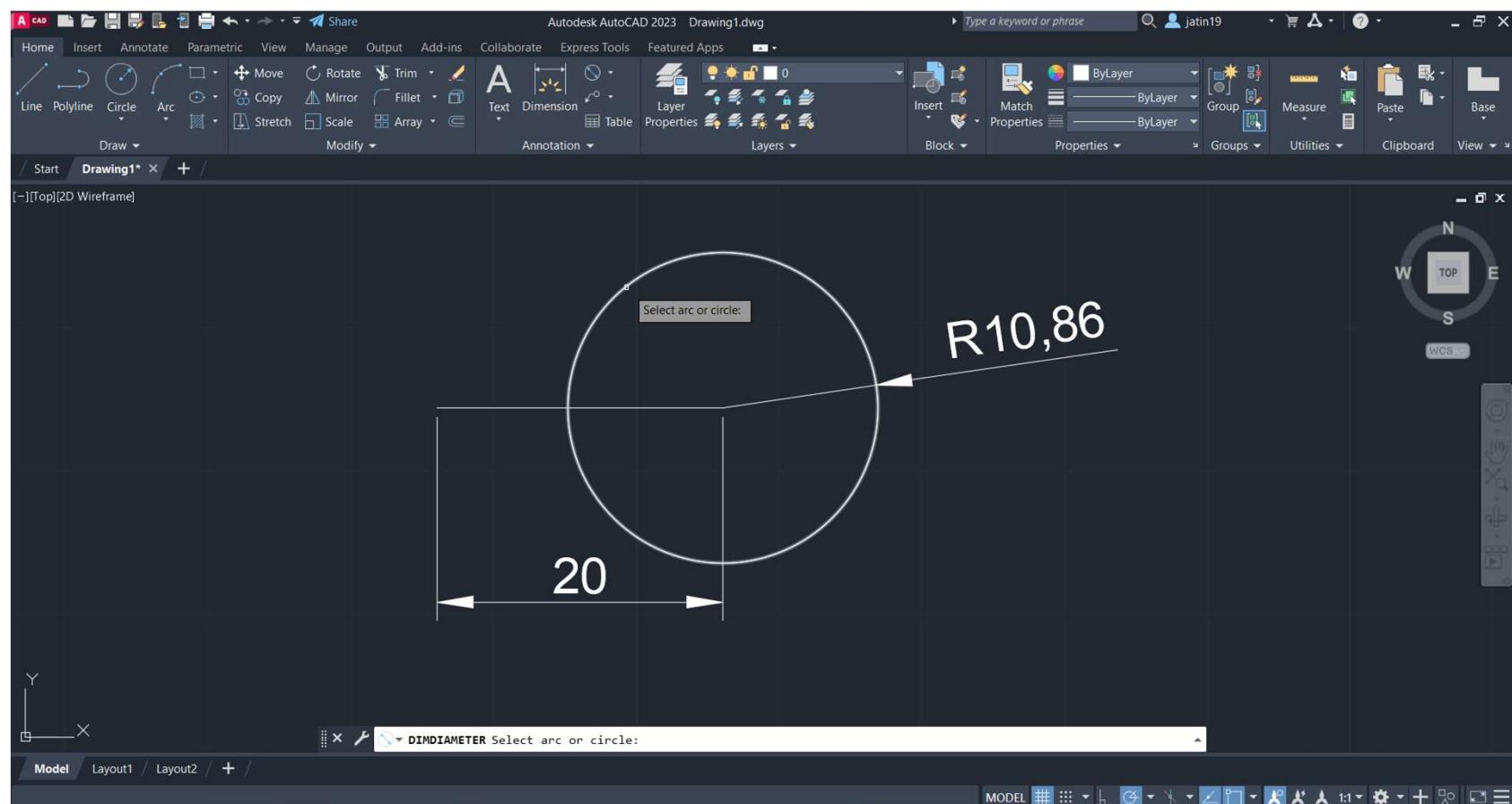
The red box depicts the annotation panel, click on the icon highlighted by green, which by default is used to add labels for a line. After clicking the icon you will be asked to select the start and end points of the line for which the label is to be added. Select the points of the line.



After selecting the points, it will display the length of the line, now you can drag the label according to your preference and when ready press the enter key to place the label.

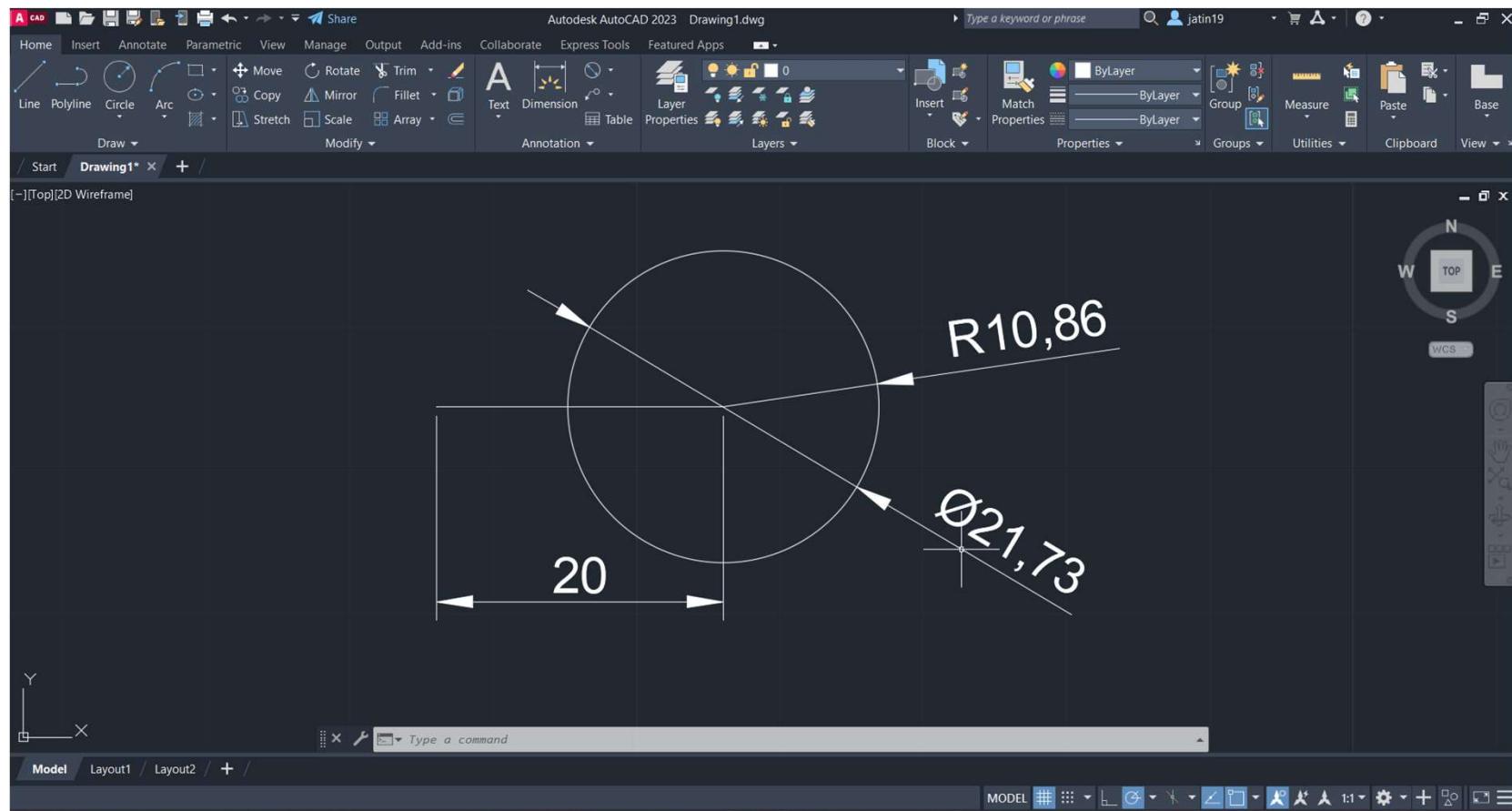


Click the highlighted arrow to switch the labels for different shapes, for our next case we will select the radius for the circle.



After selecting the radius option from the drop down menu, you will be asked to select the circle for which the radius is to be labelled. Click on the circle and it will show its radius. And just like for a line you can move the label around according to your preference and when done press enter to add the label

V



You can also add the label of diameter instead of the radius for a circle, for this just select the diameter option from the drop down menu of the dimensions icon and then follow the same steps as we did for labelling the radius, but in this case you will get a different label, which you can see in the above image.