



Green University of Bangladesh
Department of Computer Science and Engineering (CSE)
Faculty of Sciences and Engineering
Semester: (Fall, Year:2023), B.Sc. in CSE (Day)

Lab Report NO # 02
Course Title: Engineering Drawing
Course Code: CSE 208 Section: D3

Lab Experiment Name: Introduction to 2D Drawing using AutoCAD

Student Details

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Lab Date : 13/10/2023
Submission Date : 19/10/2023
Course Teacher's Name : Mohammad Ehsan Shahmi Chowdhury

Lab Report Status	
Marks:	Signature:
Comments:	Date:

1. TITLE OF THE LAB REPORT EXPERIMENT

Introduction to 2D Drawing using AutoCAD

2. OBJECTIVES/AIM

- To familiarize with Engineering Drawing and AutoCAD.
- To implement advance knowledge 2D drawing circles , rectangle and triangle

3. PROCEDURE

Drawing 1

Detailed steps to draw Drawing 1:

1. Draw the outer polygon at first with side-length 20

1. Firstly select the unit from the AutoCAD icon and select the unit length to engineering.

Circle:

Shortcut key: C

- Go to the drawing panel
- Click on the circle

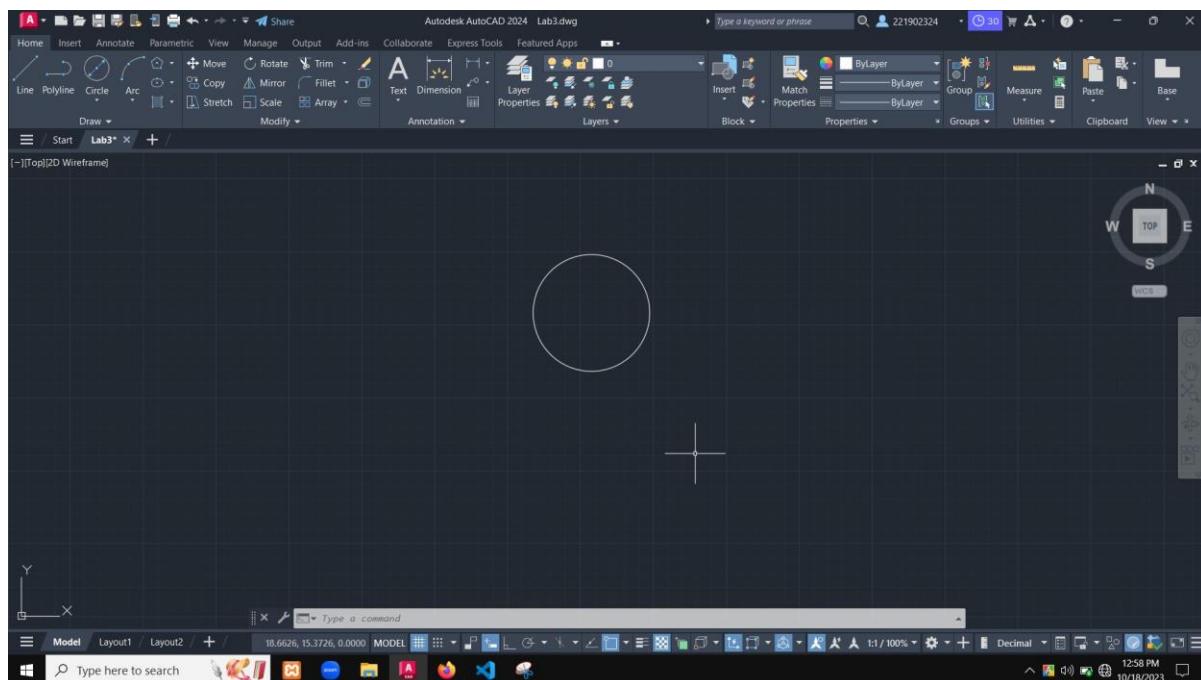


Figure: circle

Polygon:

Shortcut key: pol

- Go to the command panel
- Write Pol
- The unit is 2

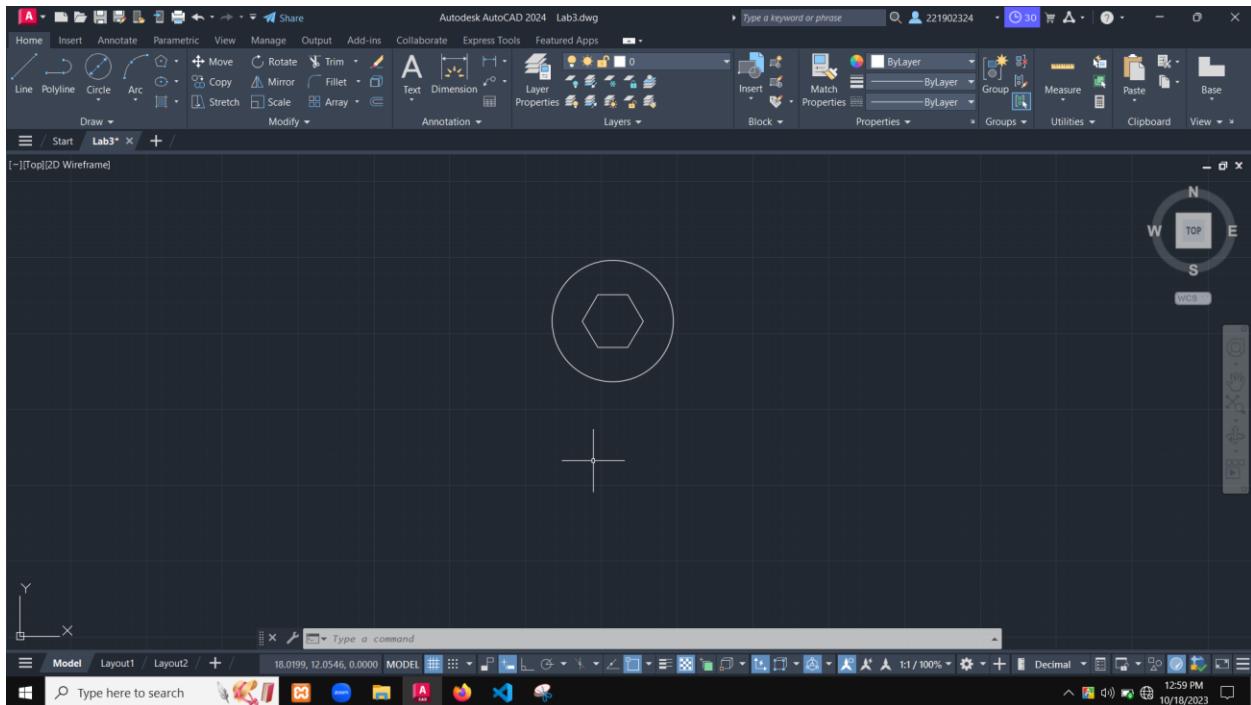


Figure: polygon – unit 2

Line :

Shortcut key: L

- Go to the command panel
- Write L
- The unit is 10 , angle 90 degree

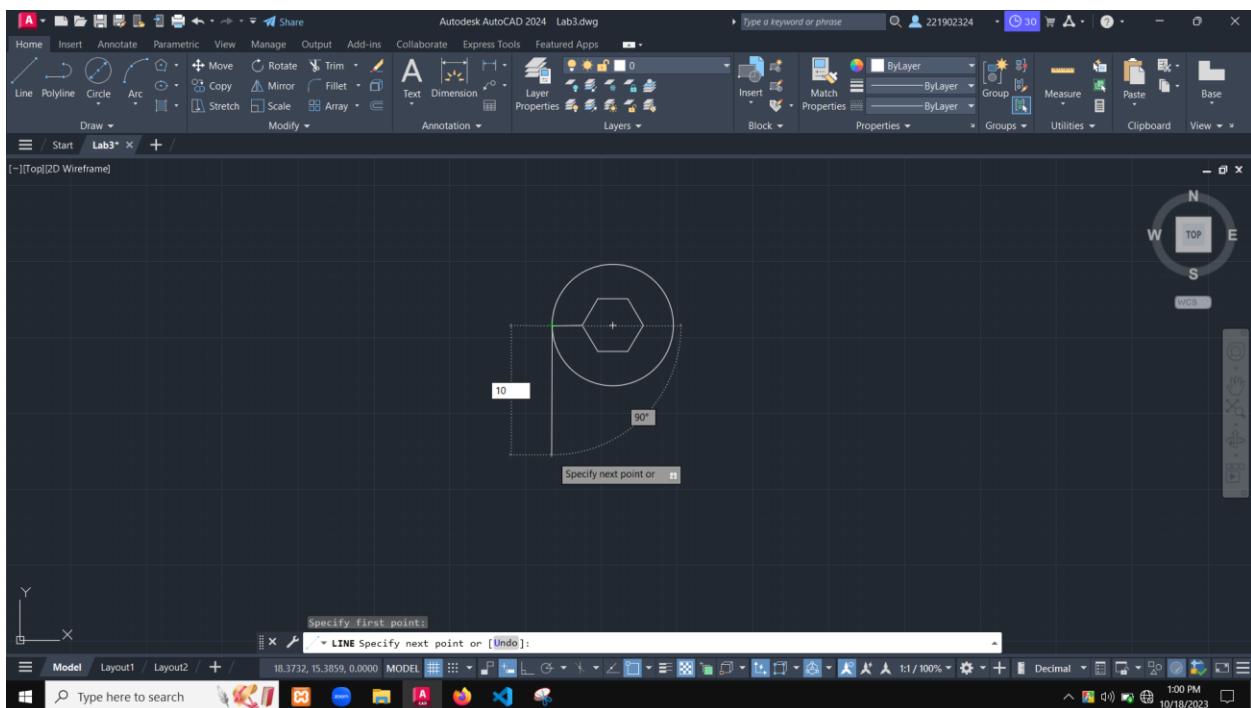


Figure: line from center, unit- 10

Drawn according to the questions units.

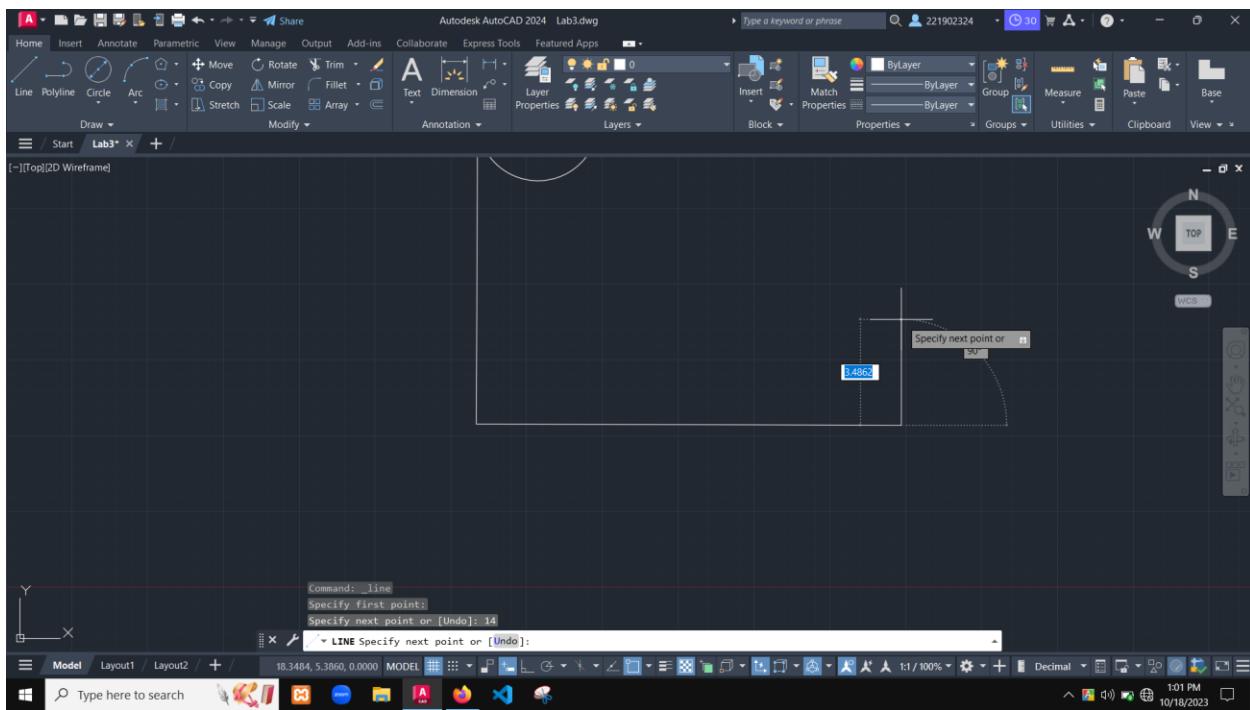


Figure: Line , unit 14

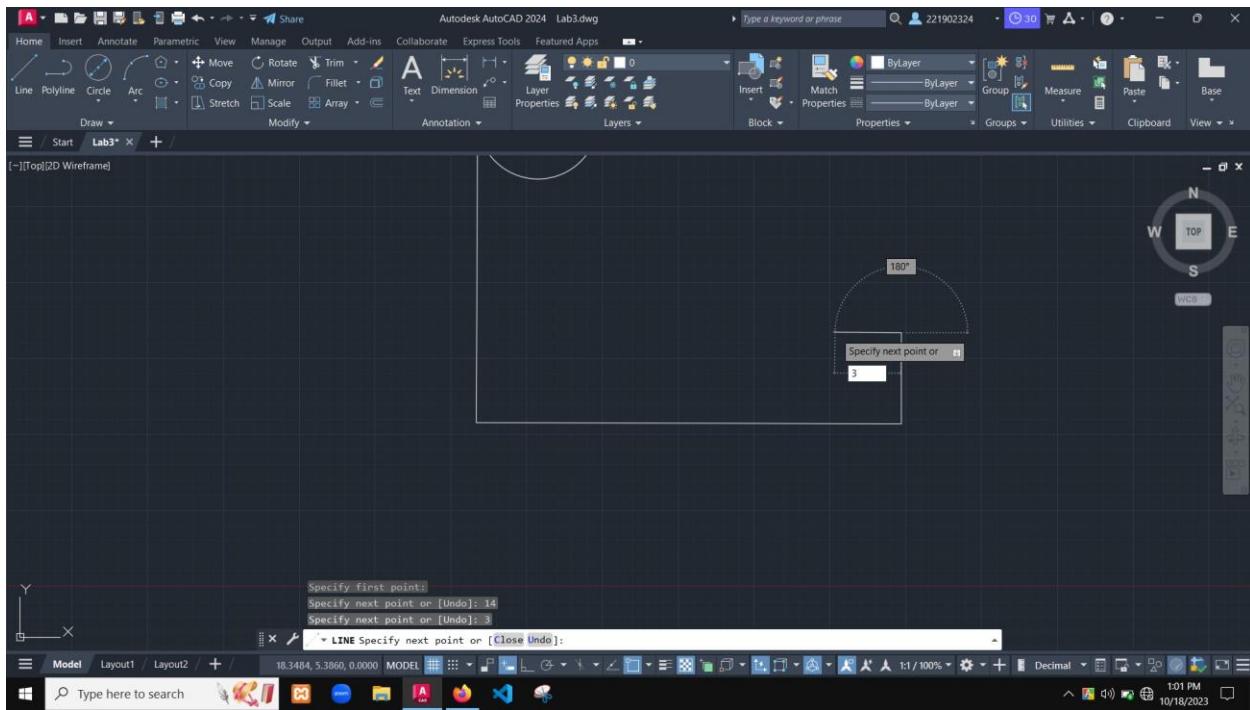


Figure: Line , unit 3

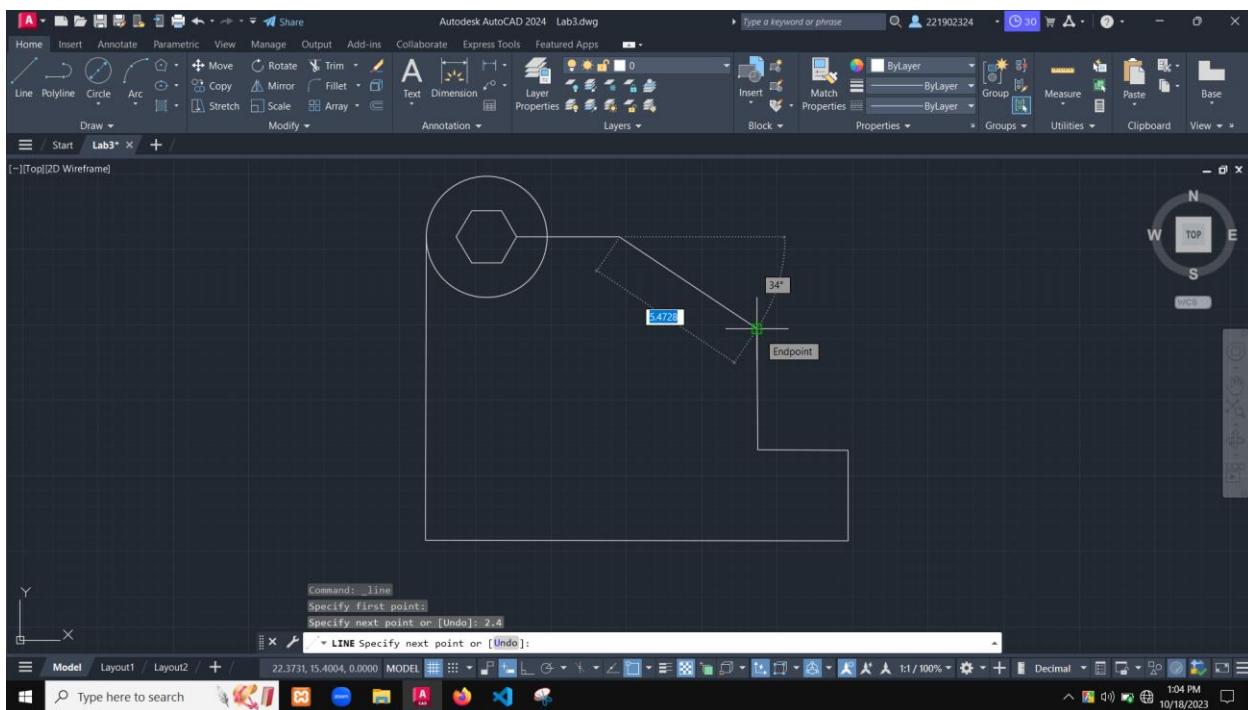
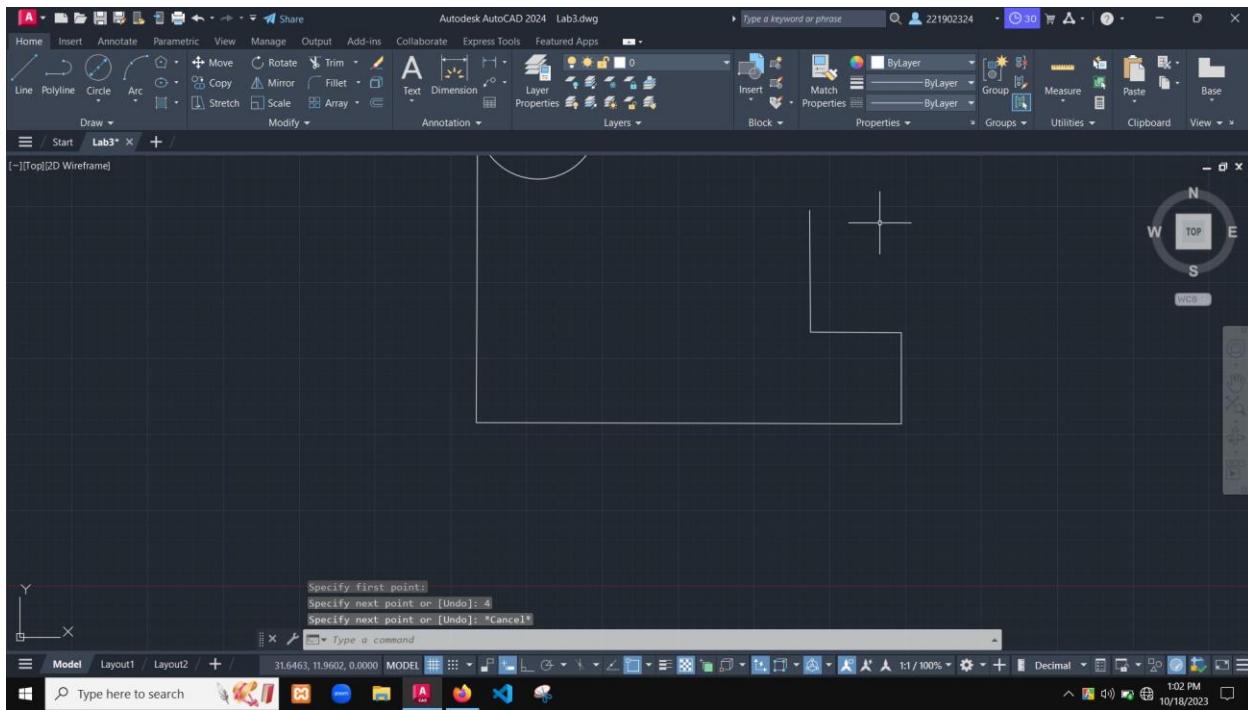


Figure: Line

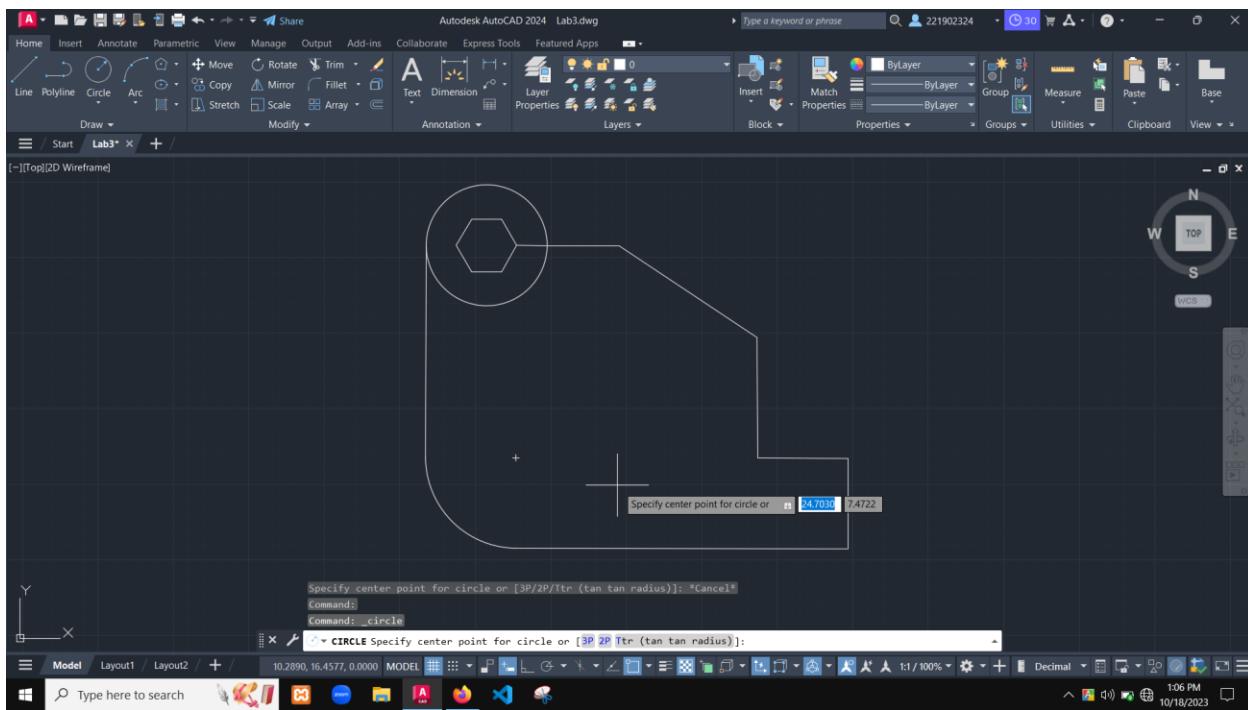


Figure: Creating tan tan radius circle

- ✓ I used fillet tool and tan tan radius circle.

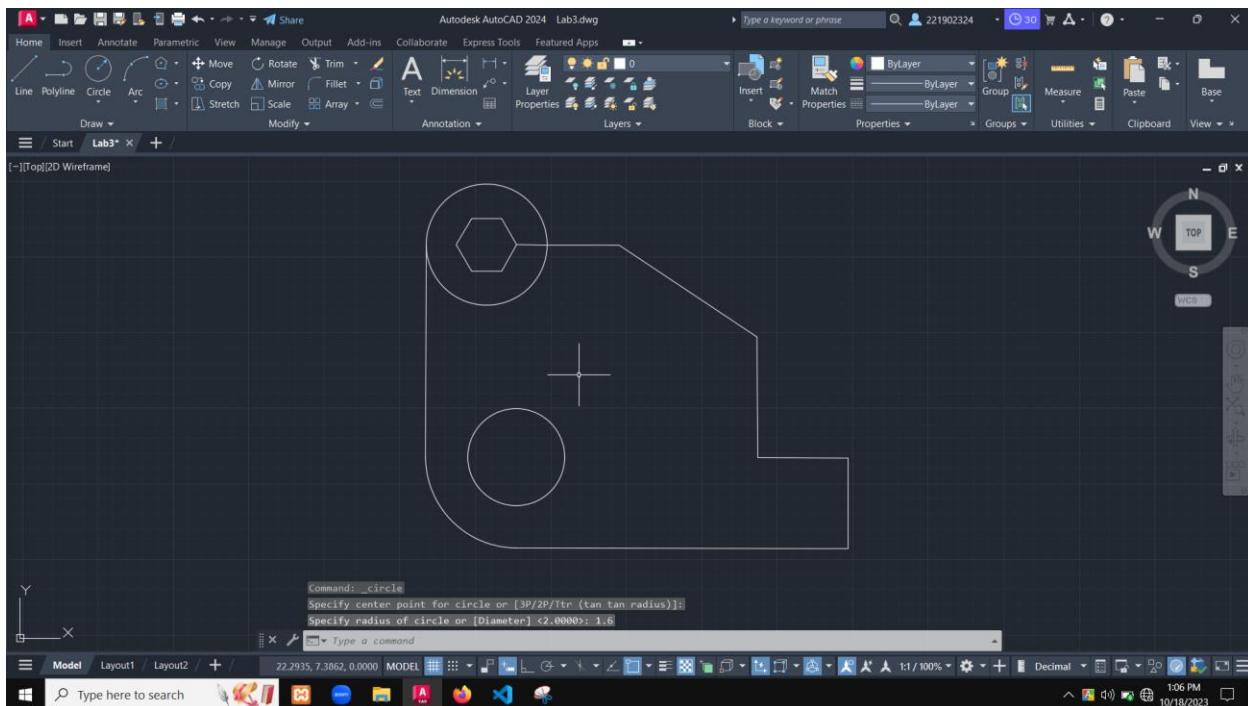


Figure: Circle , Radius-1.6

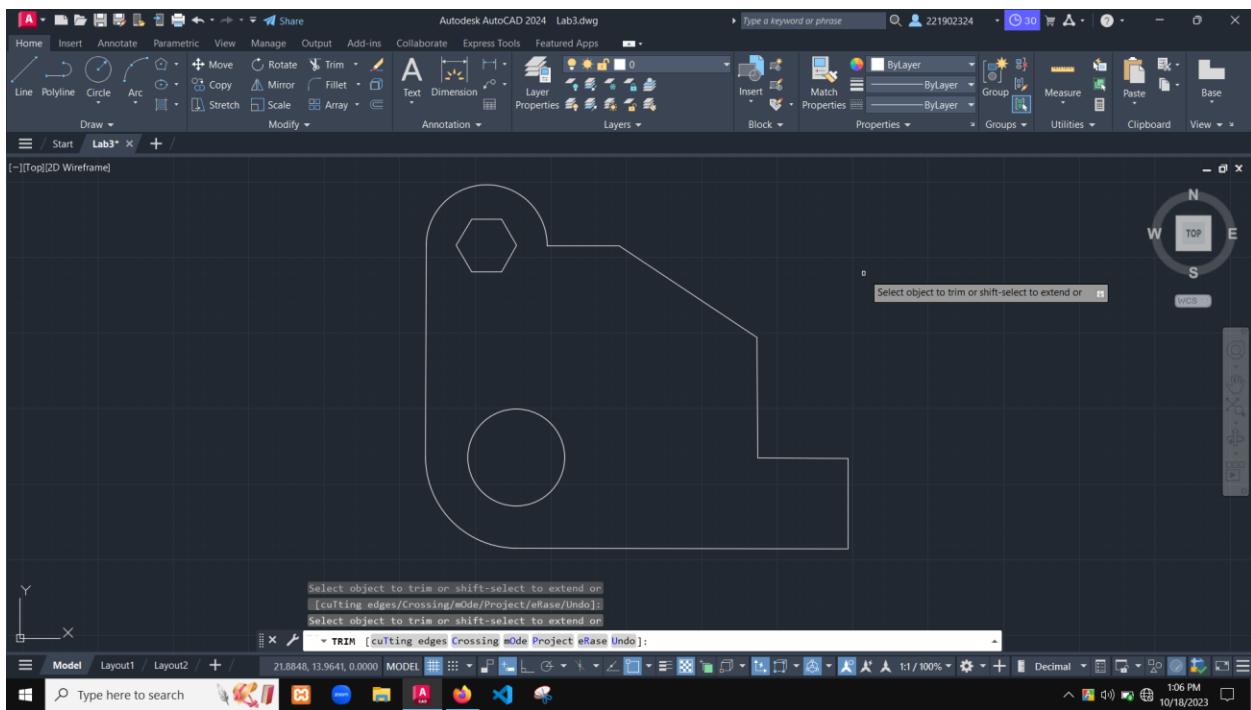
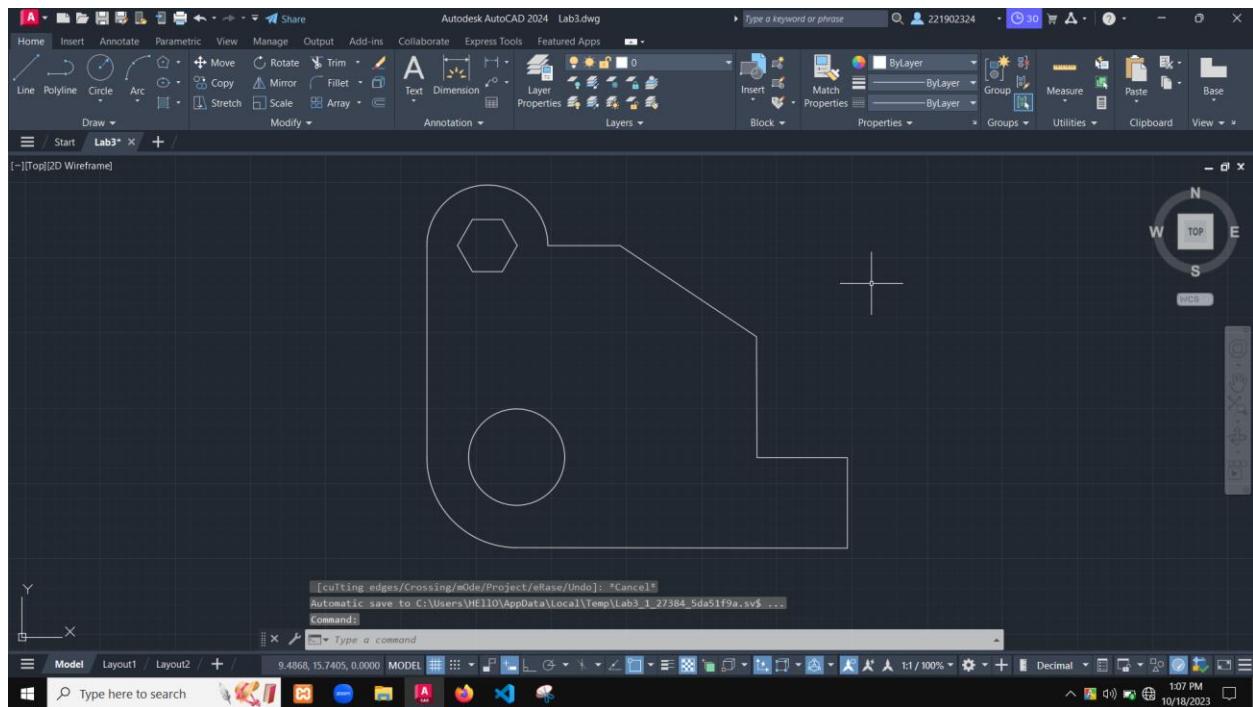
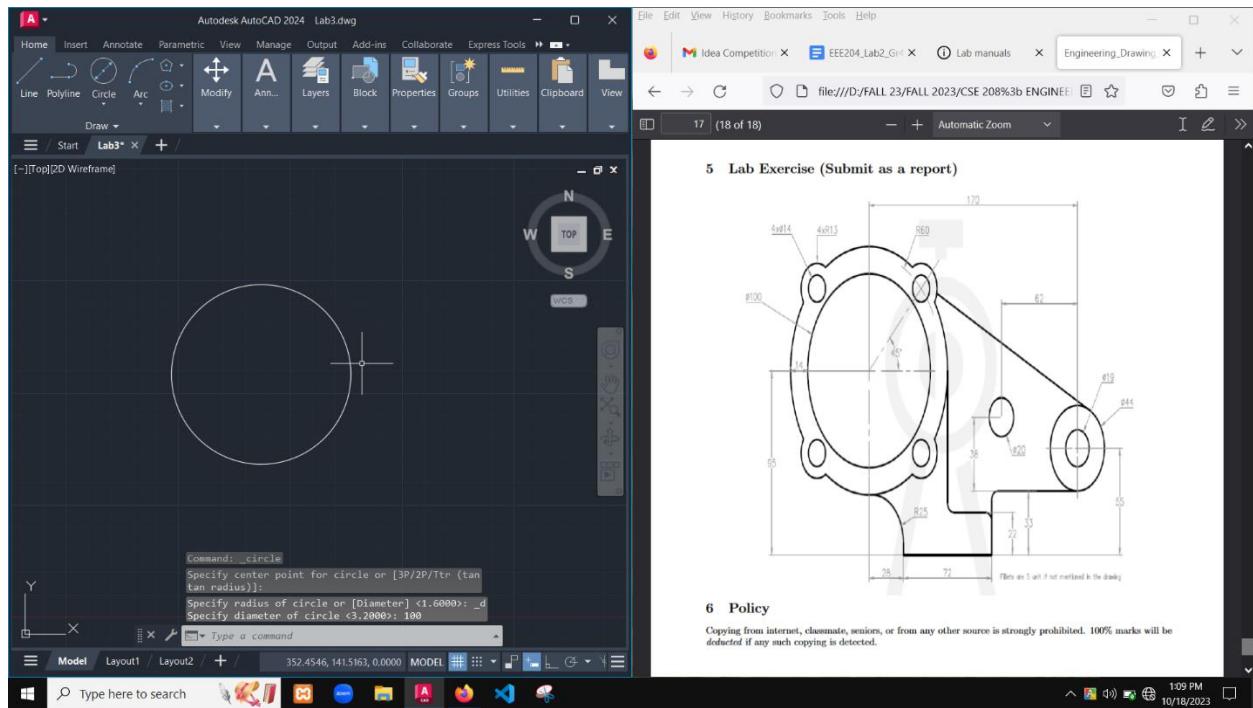


Figure : Cutting edges by trim

- ✓ Finally the figure completed.



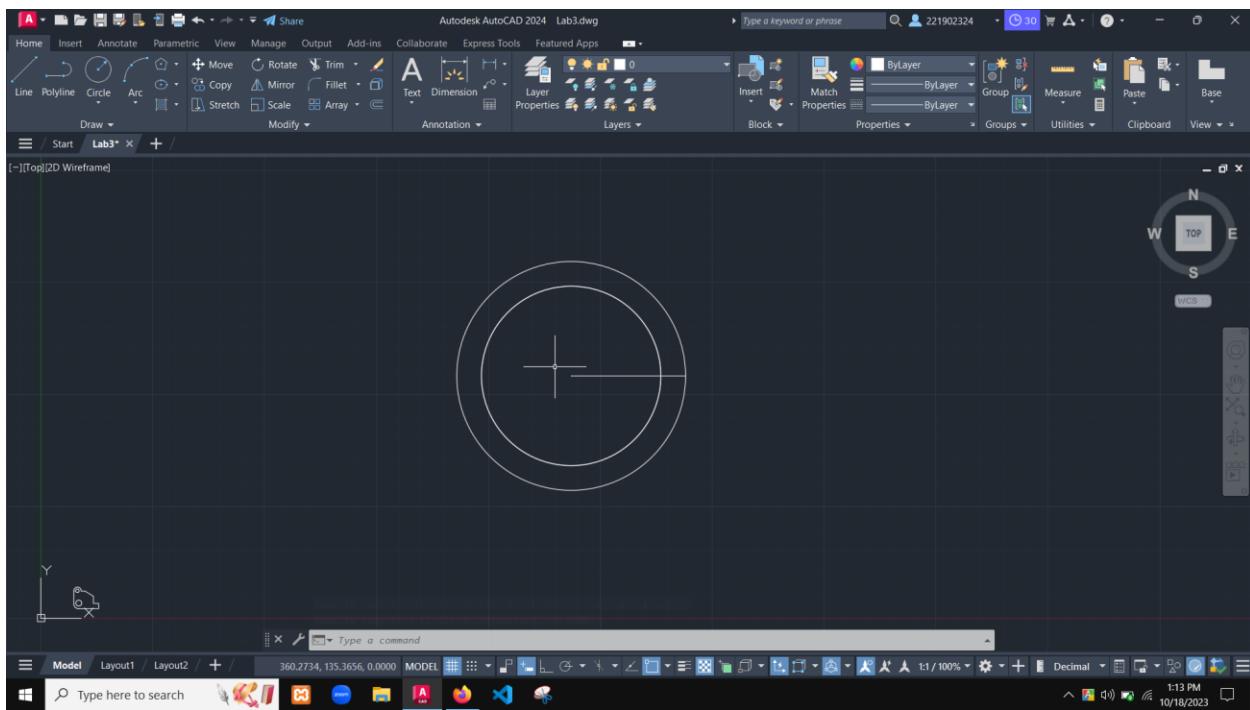
Lab Task 2:



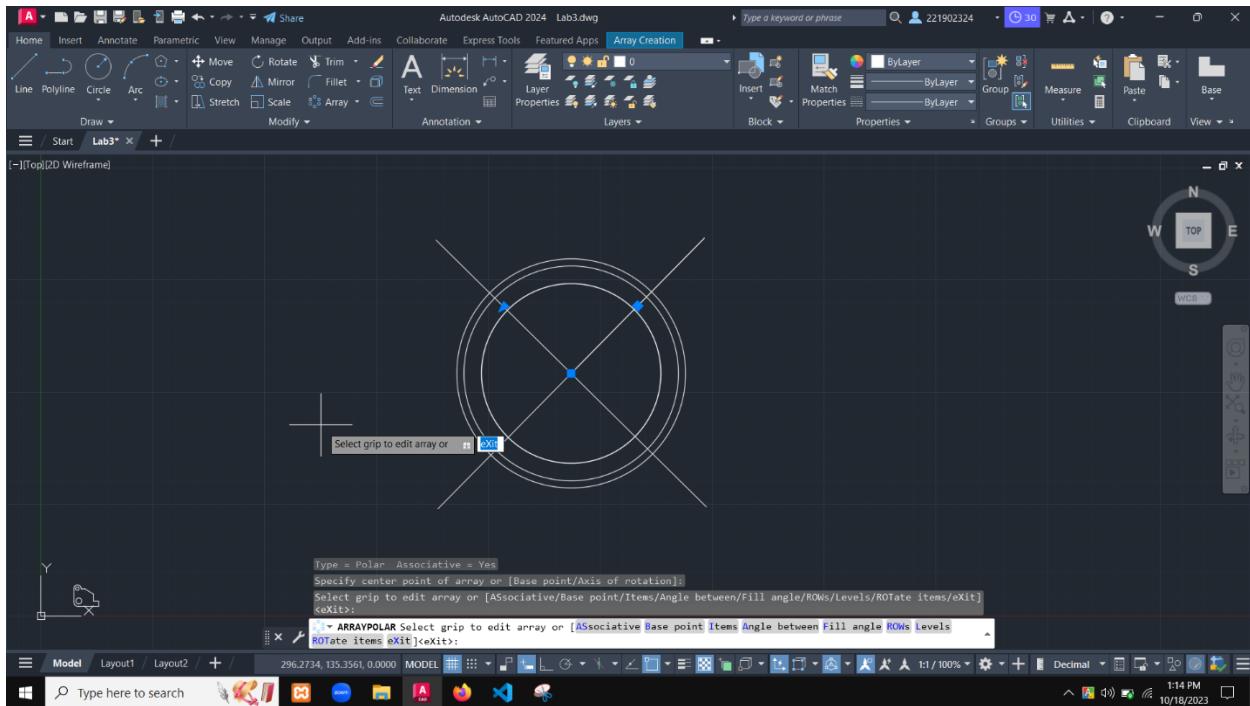
1. Drawed Circle(tan tan radius) according to the diameter by given the question

Shortcut : C inputted in command.

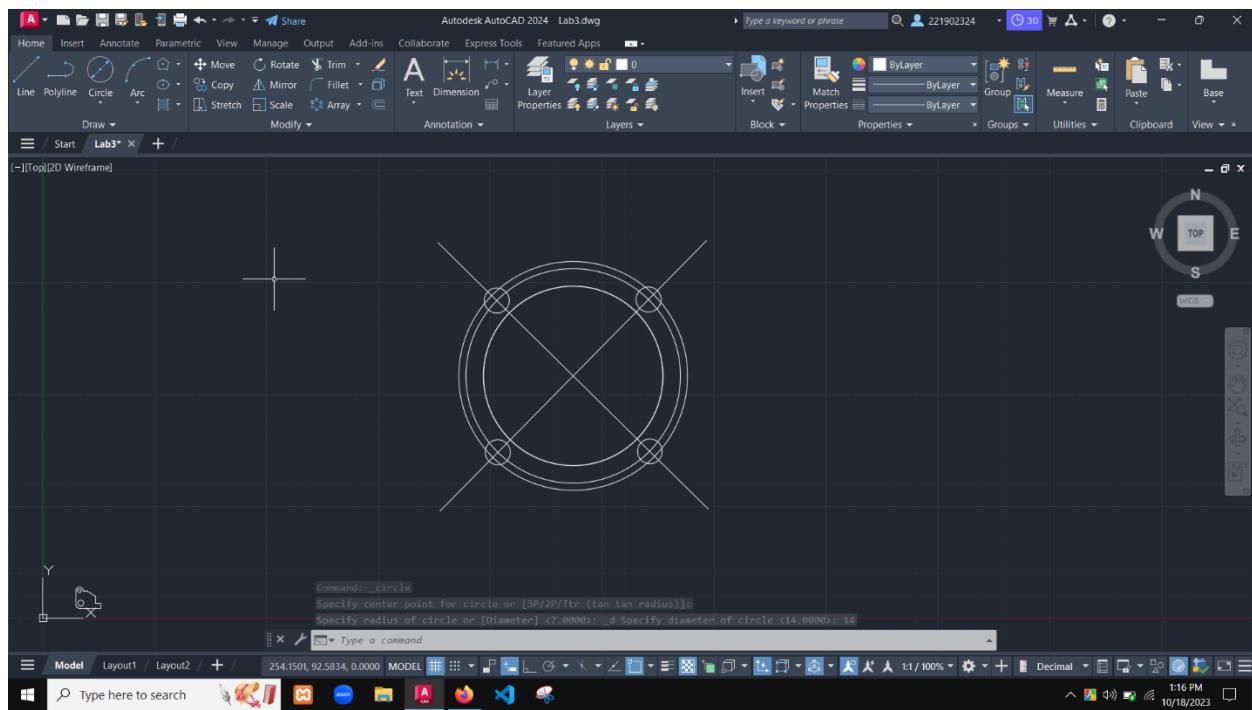
2. Again drewed circle , radius is 3.2



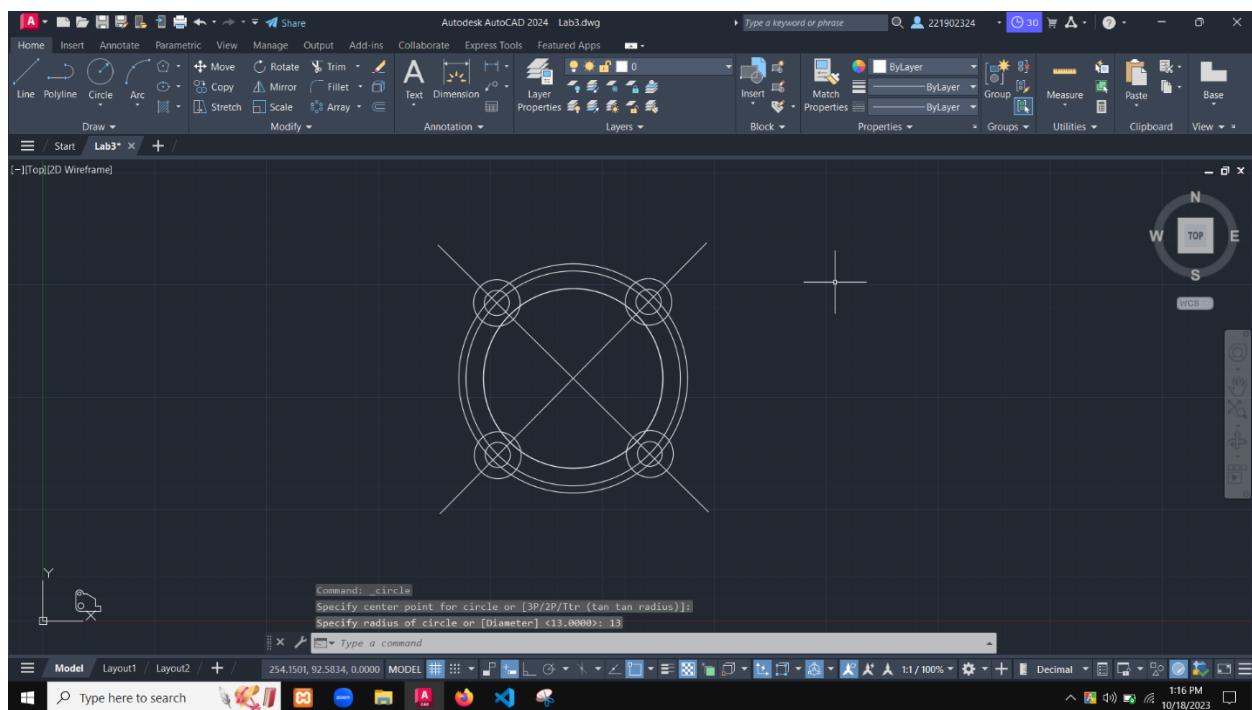
3. Now select array polar for the circle. I can be edit edit by selecting grip.



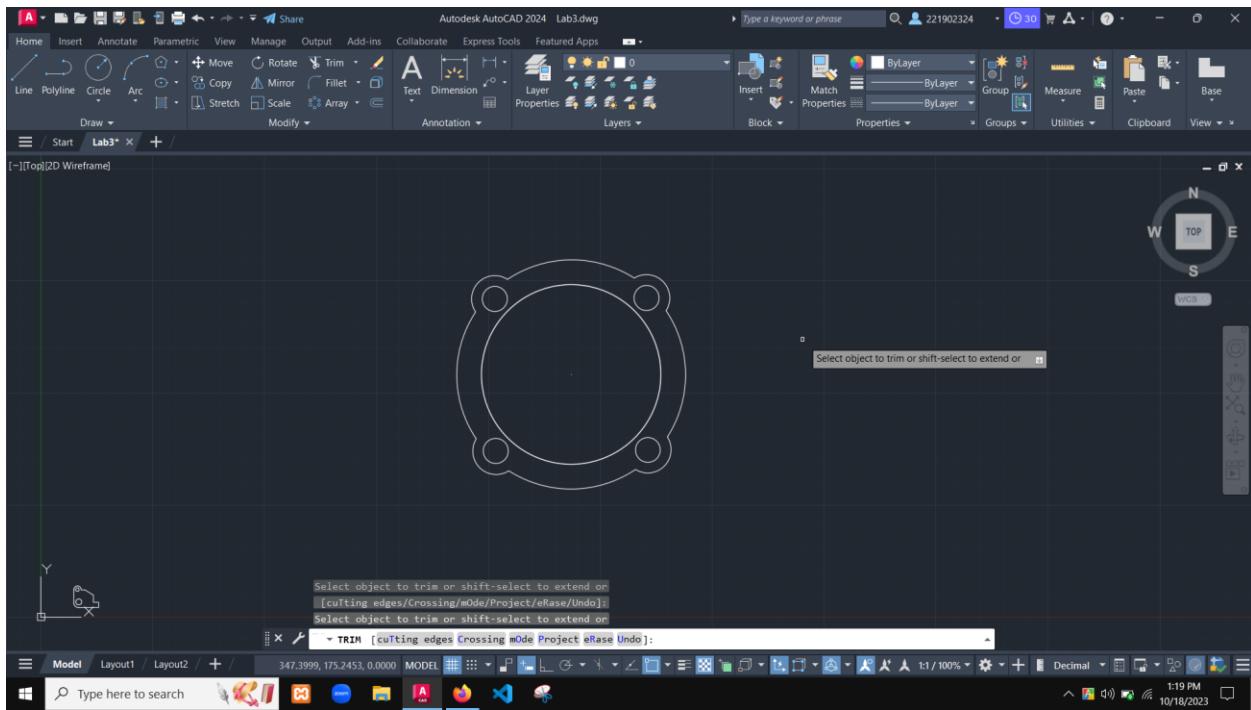
4. The following output would be come out.



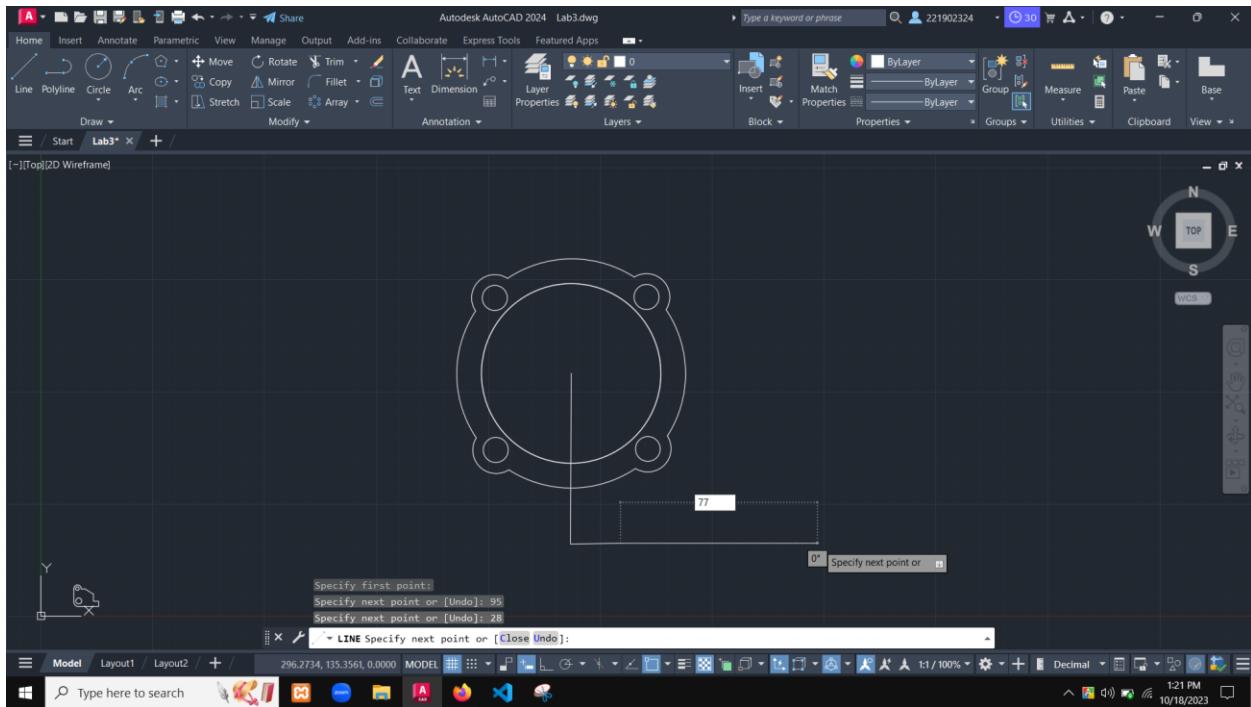
5. Again select circle or write circle in the command, which is 13 in diameter.



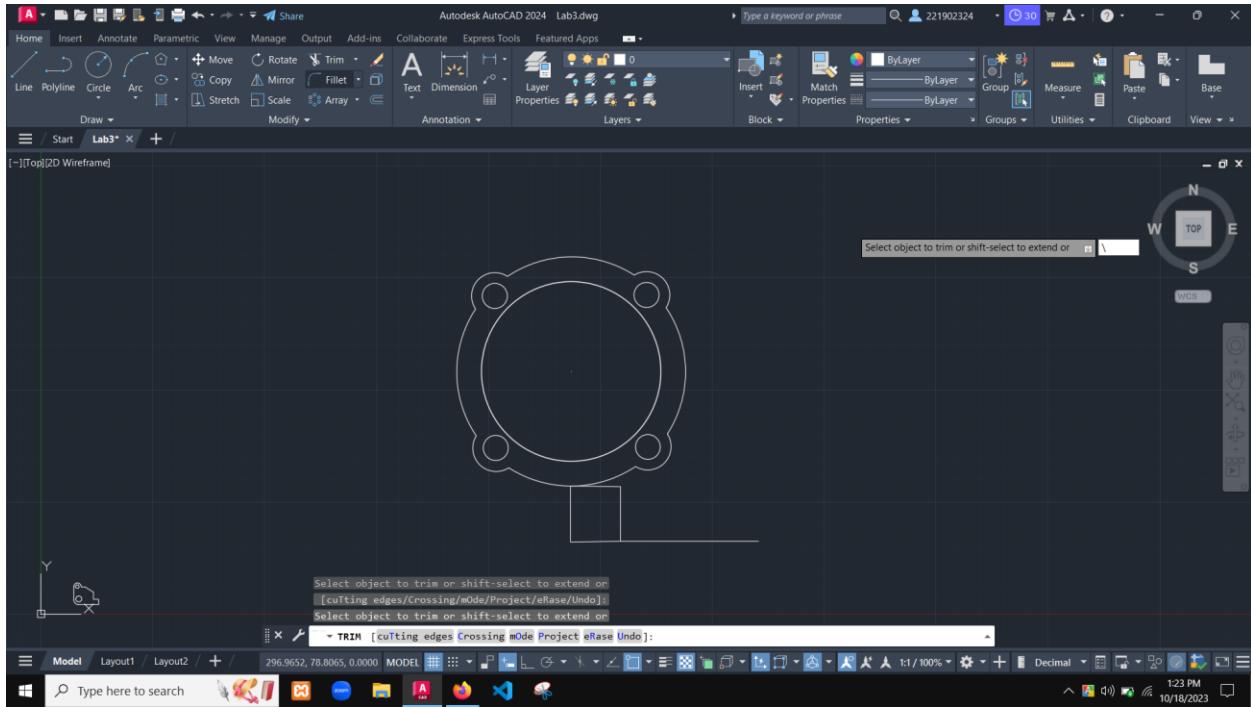
6. We don't need extra line so, we can use trim.



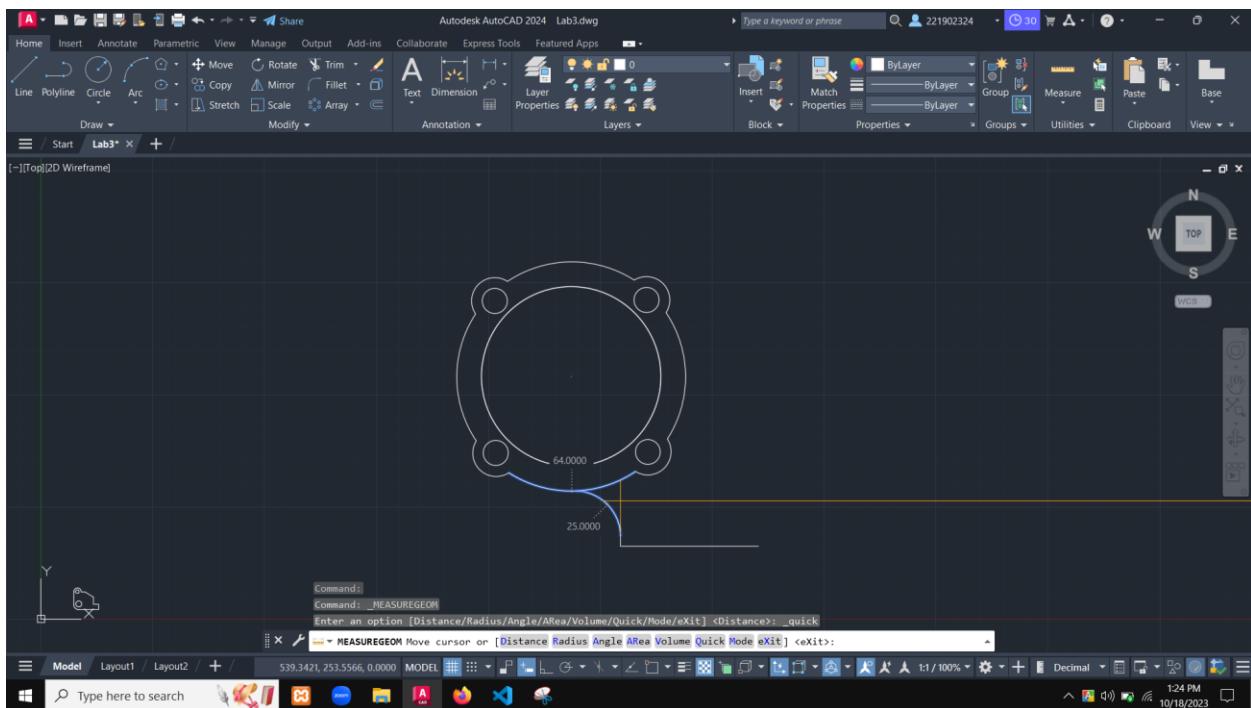
7. Now draw lines diameter are 95 long and right side is 28 .



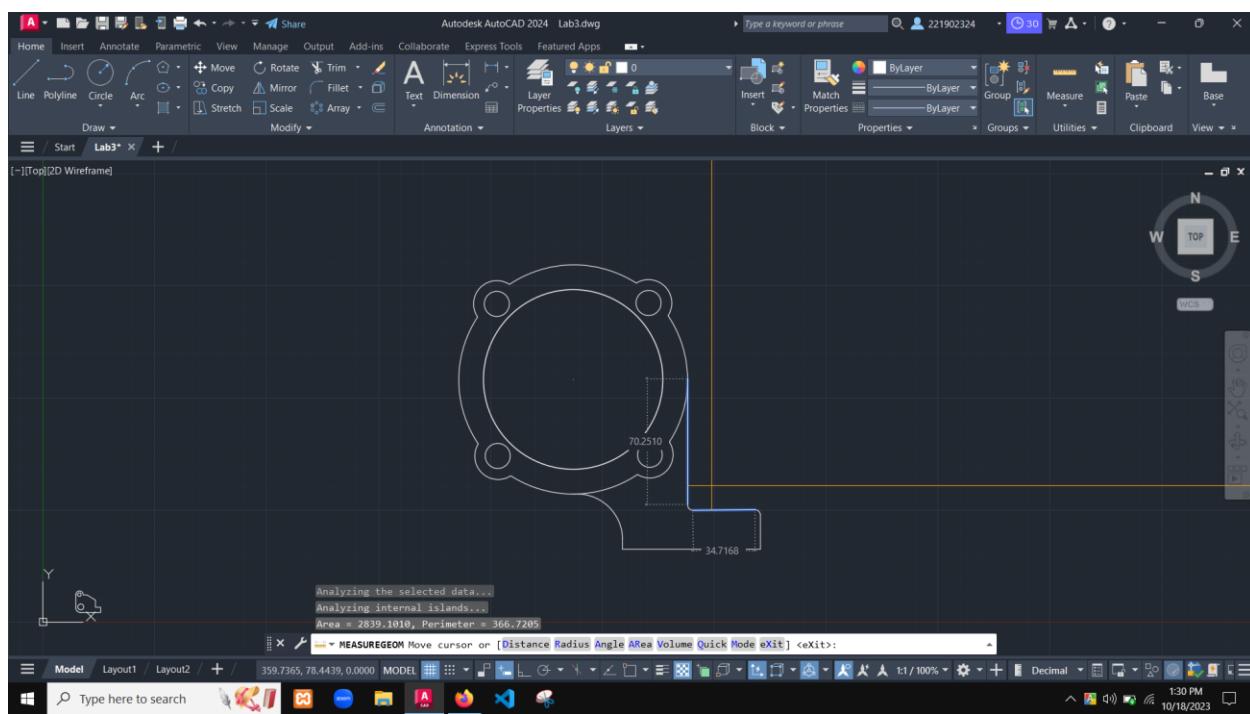
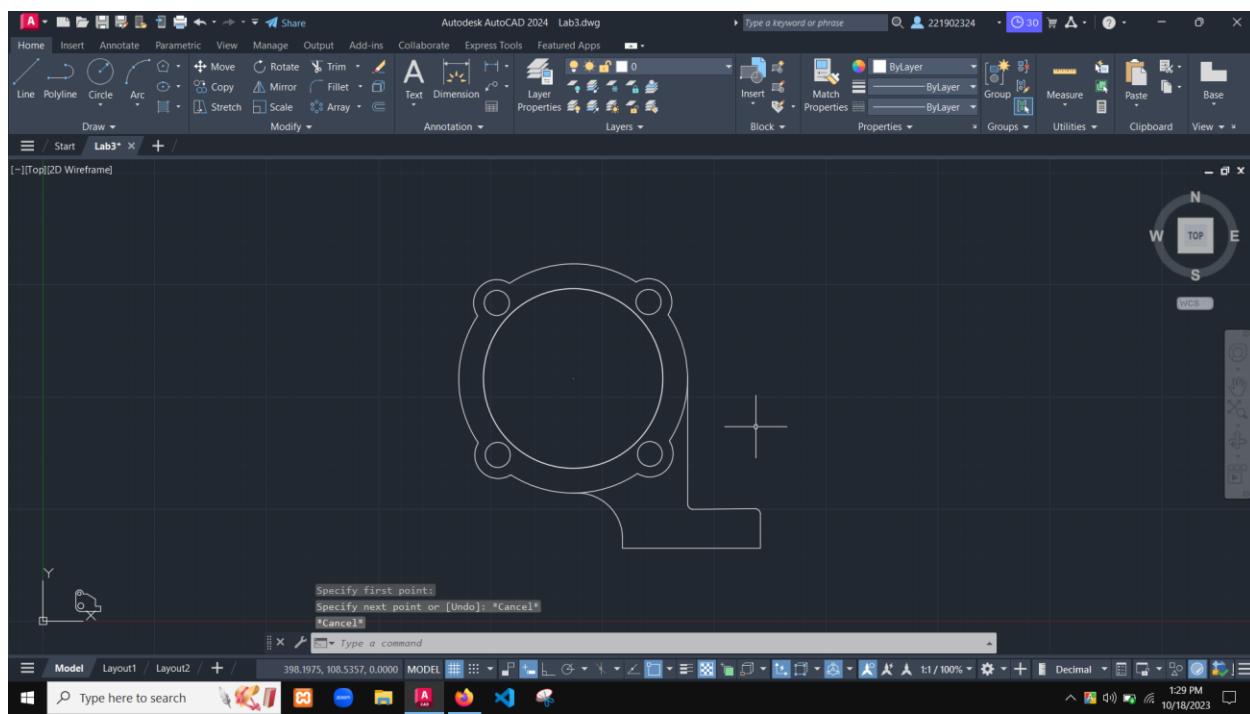
8. Selecting objects to trim.

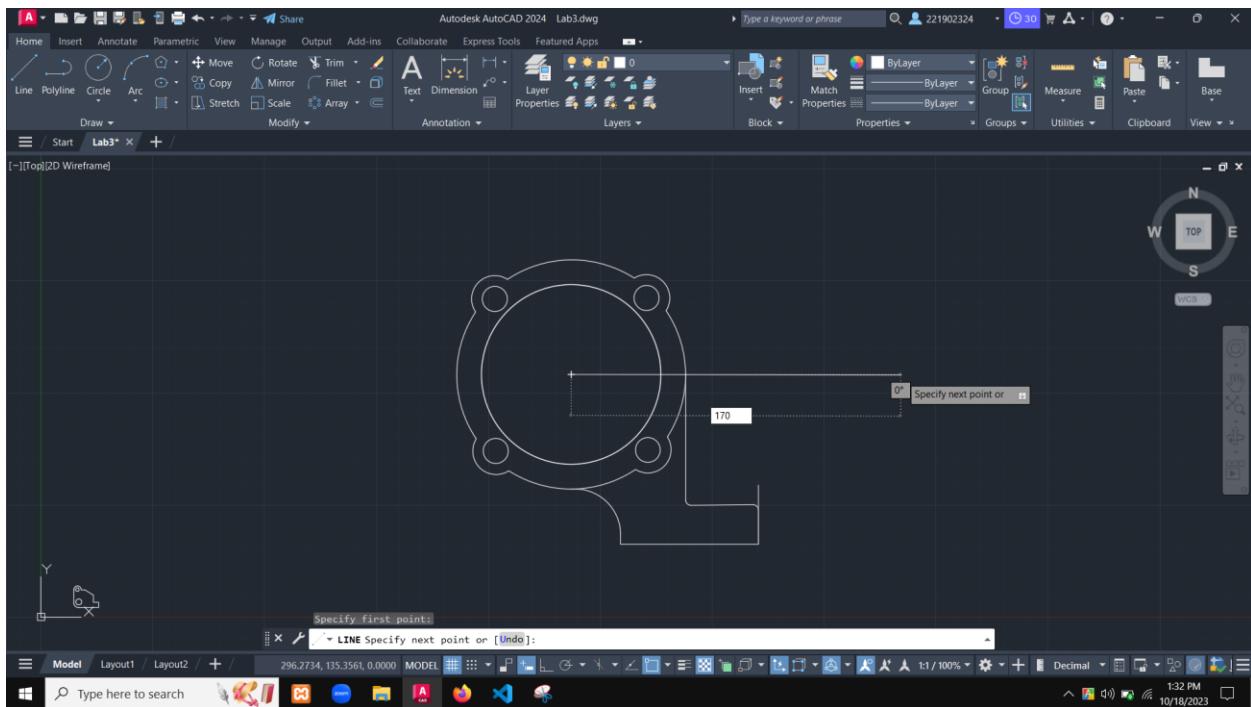


9. Now use fillet tools for shape its original design. After selecting Fillet tools , select radius in the command then we can fillet by our own radius.

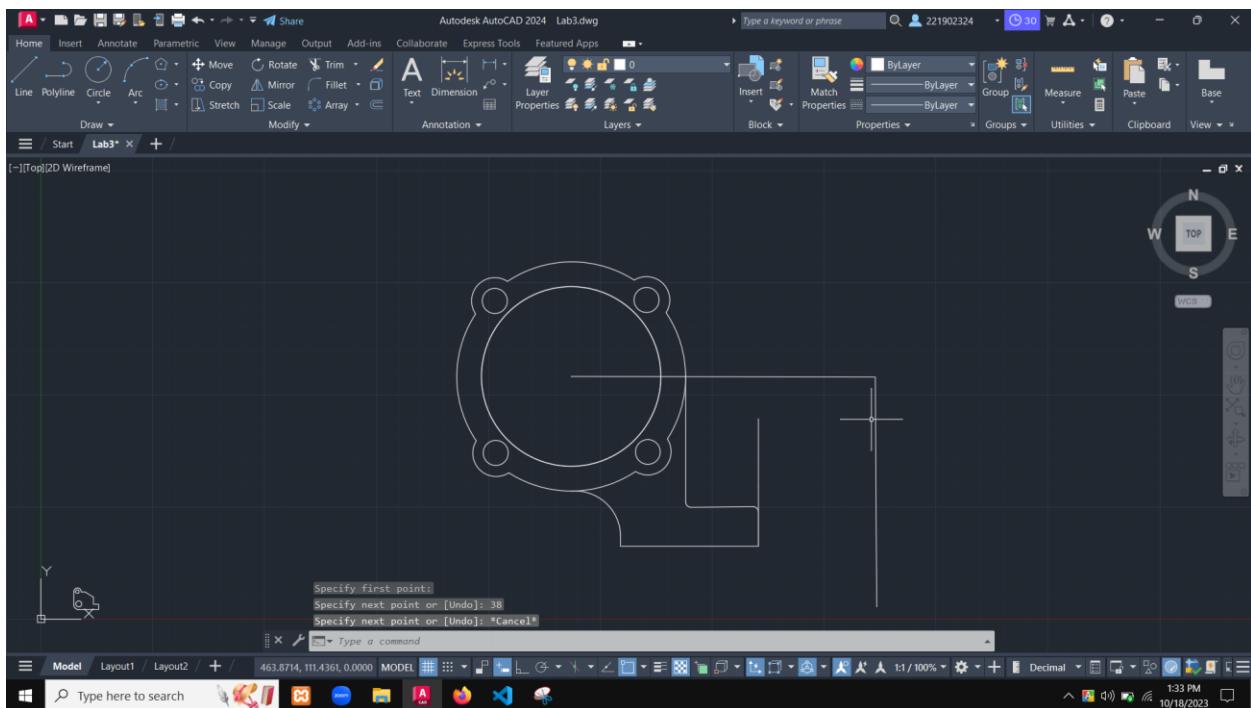


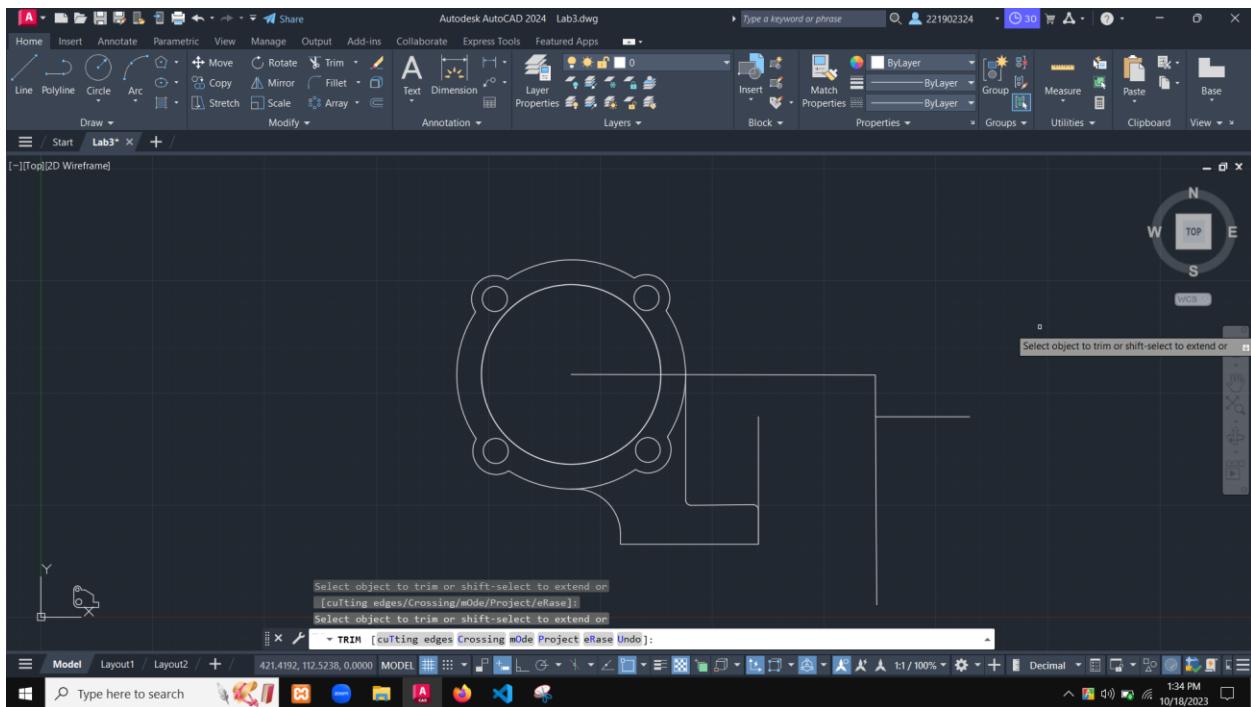
10. Using Measure tool to see the measurement is correct or not.



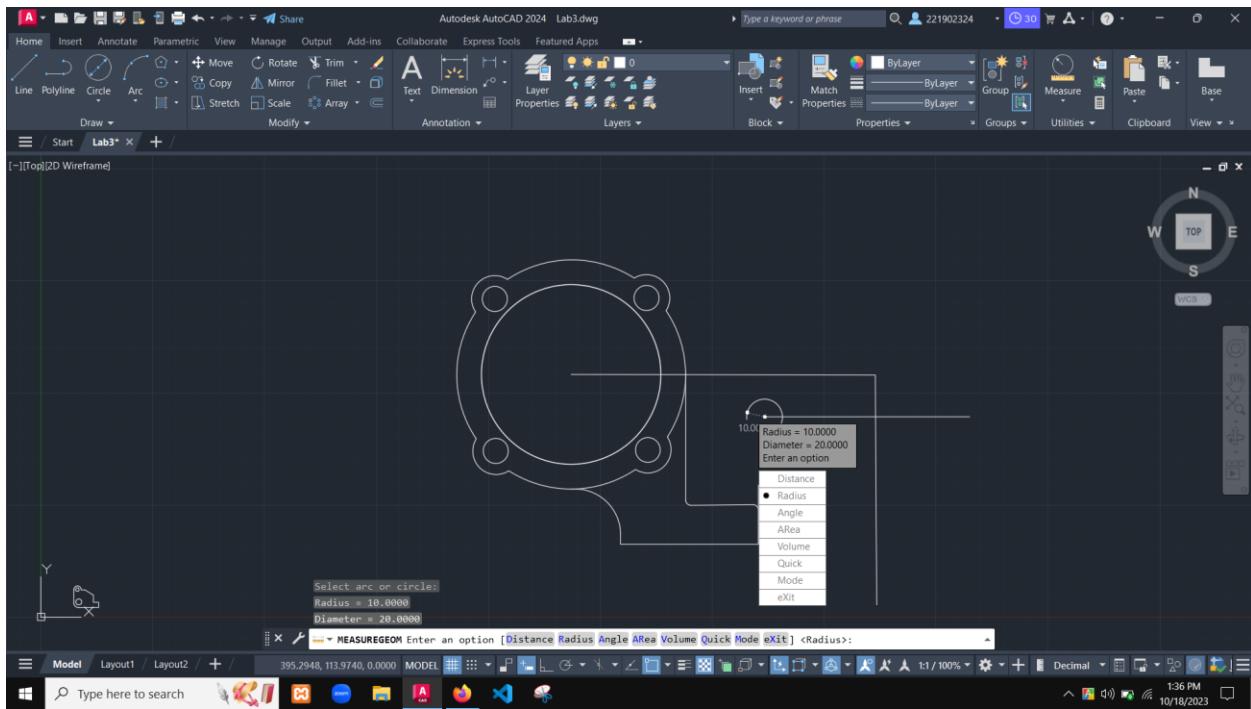


11. Create Line which is 170 diameter and 38 diameter.

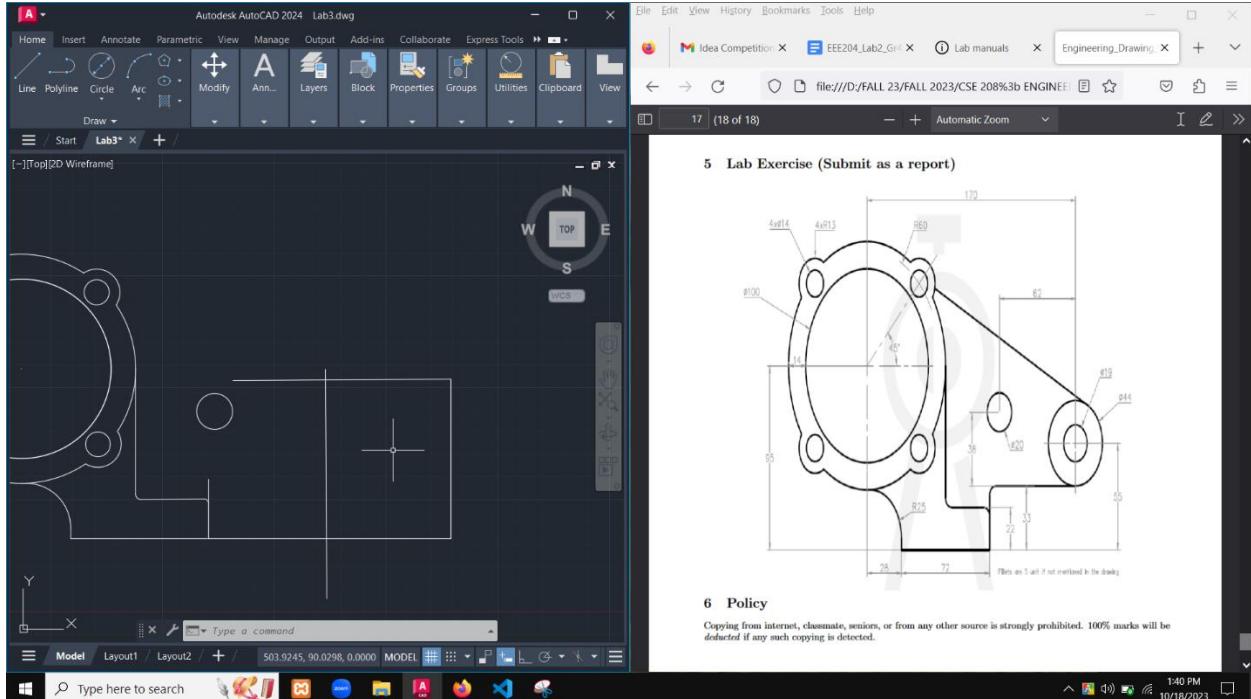


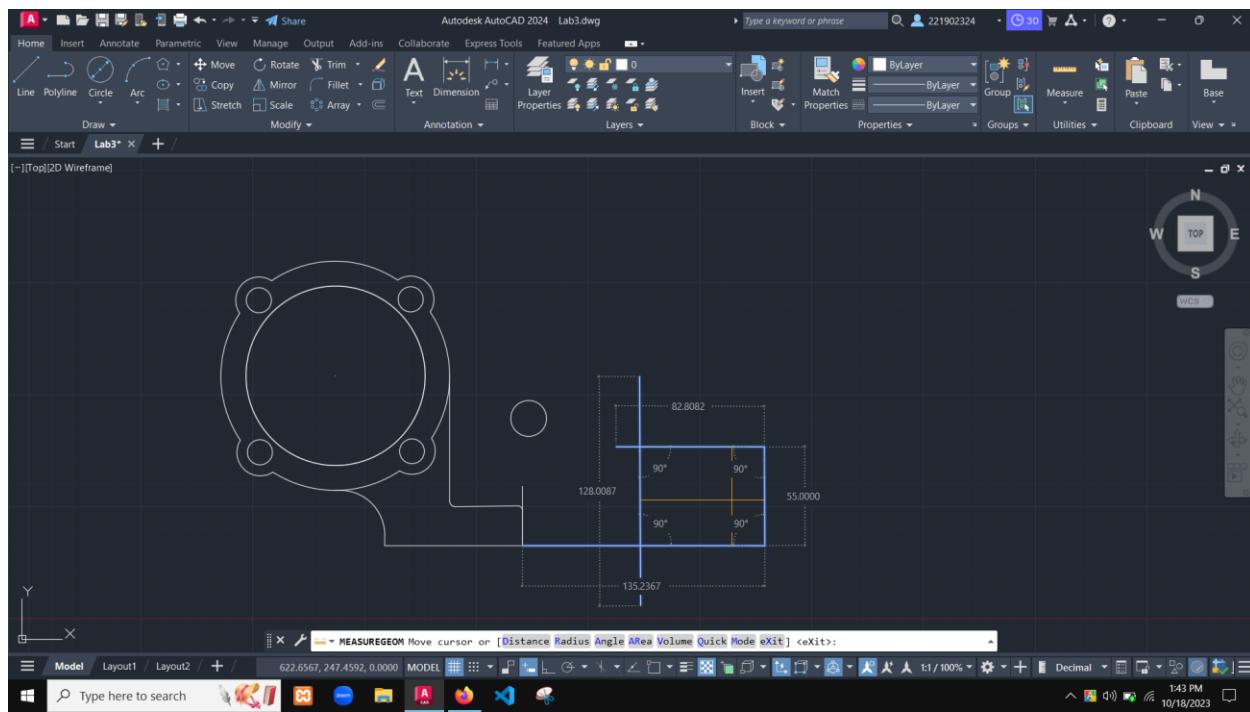
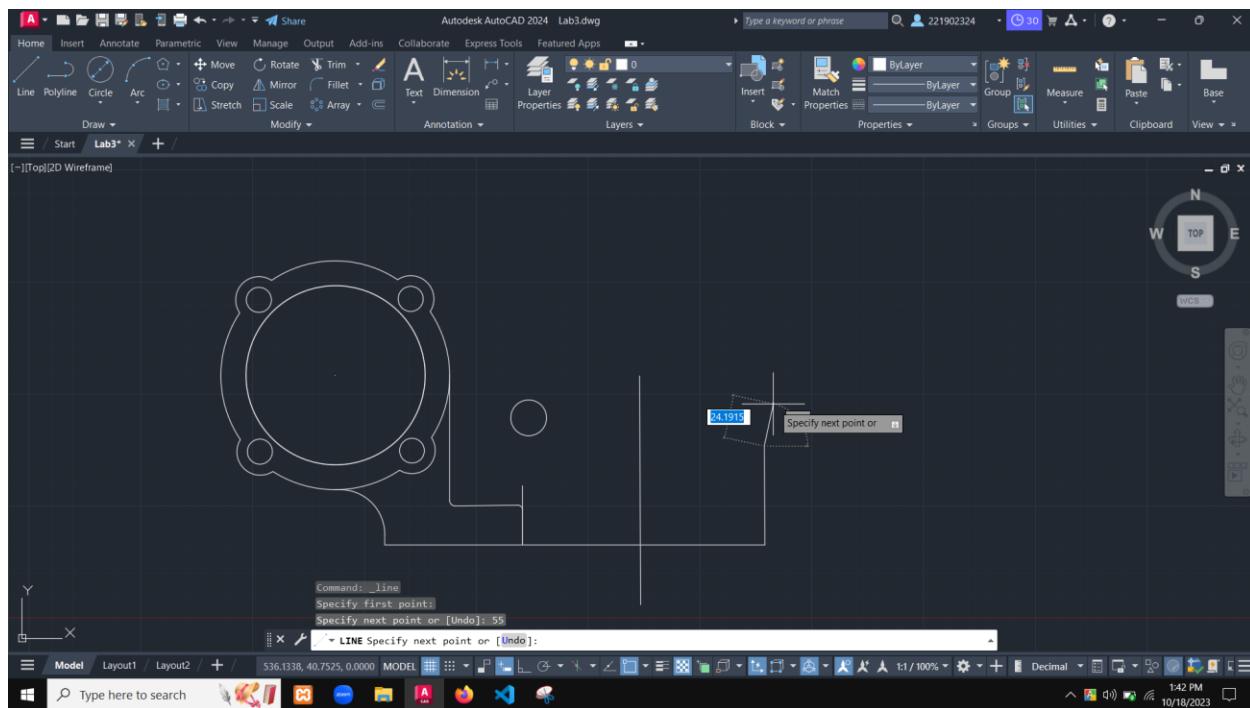


12. Trim tool selected for remove extra lines.

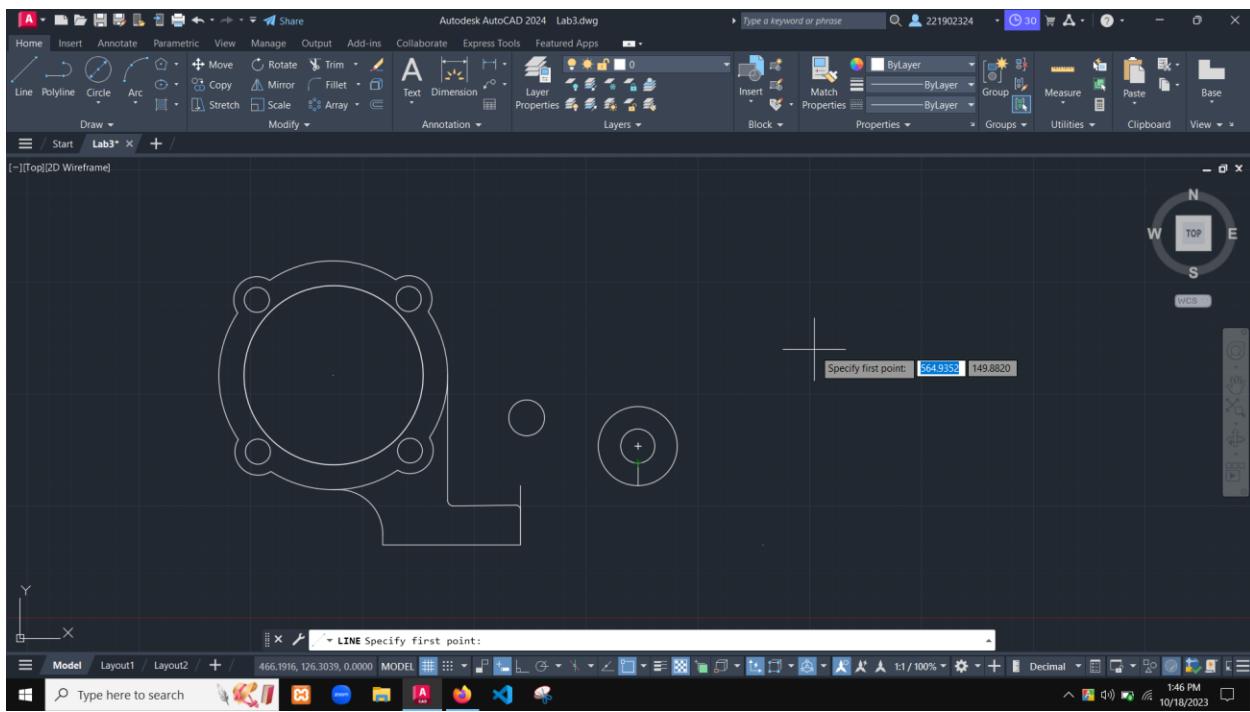


13. Select radius 20 to draw circle.

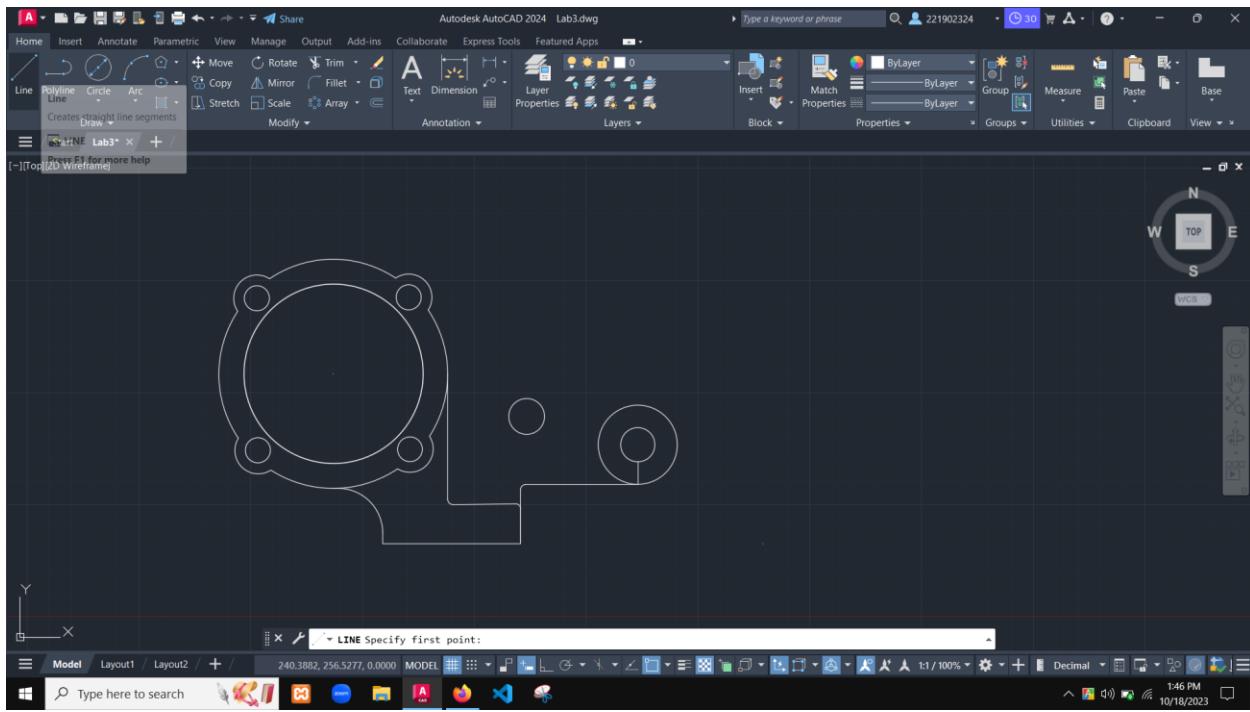


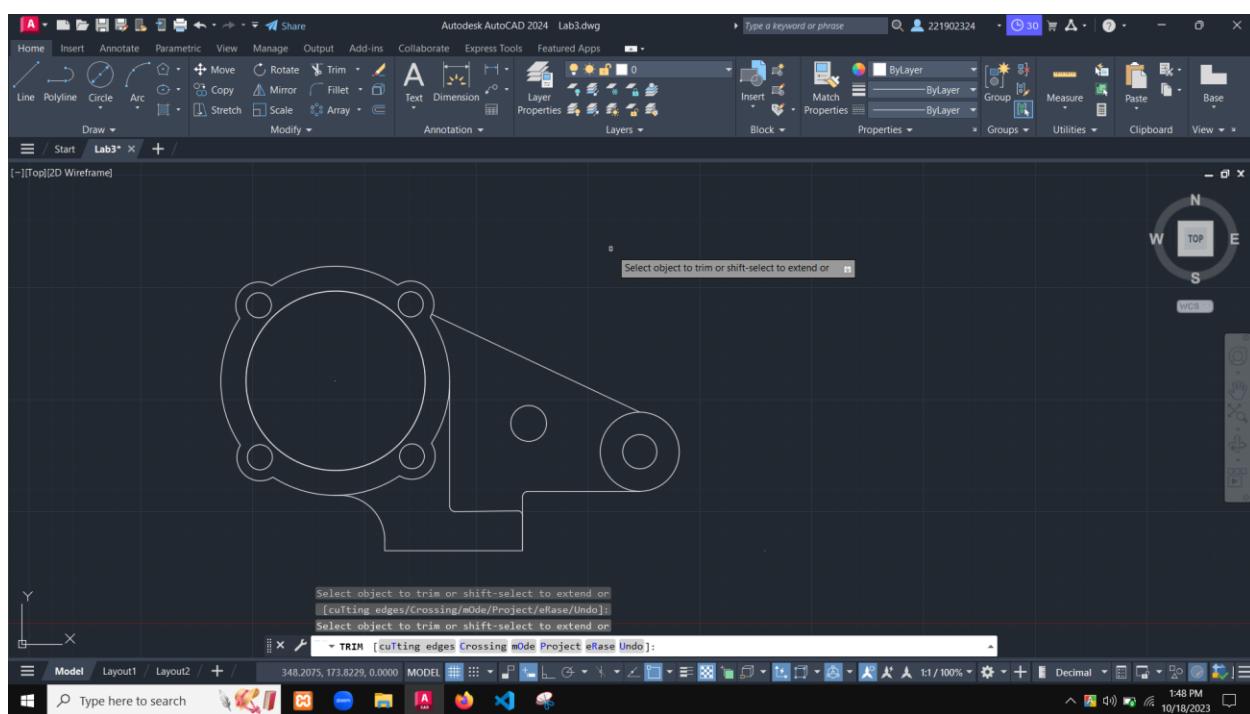
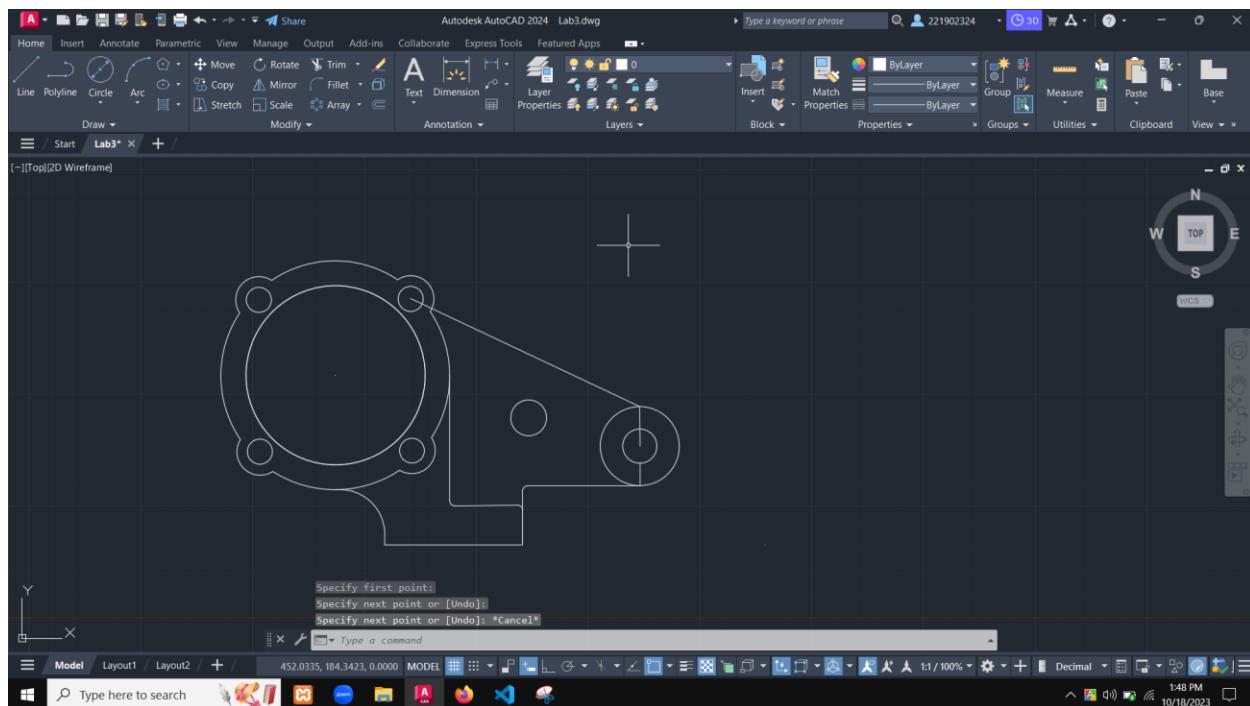


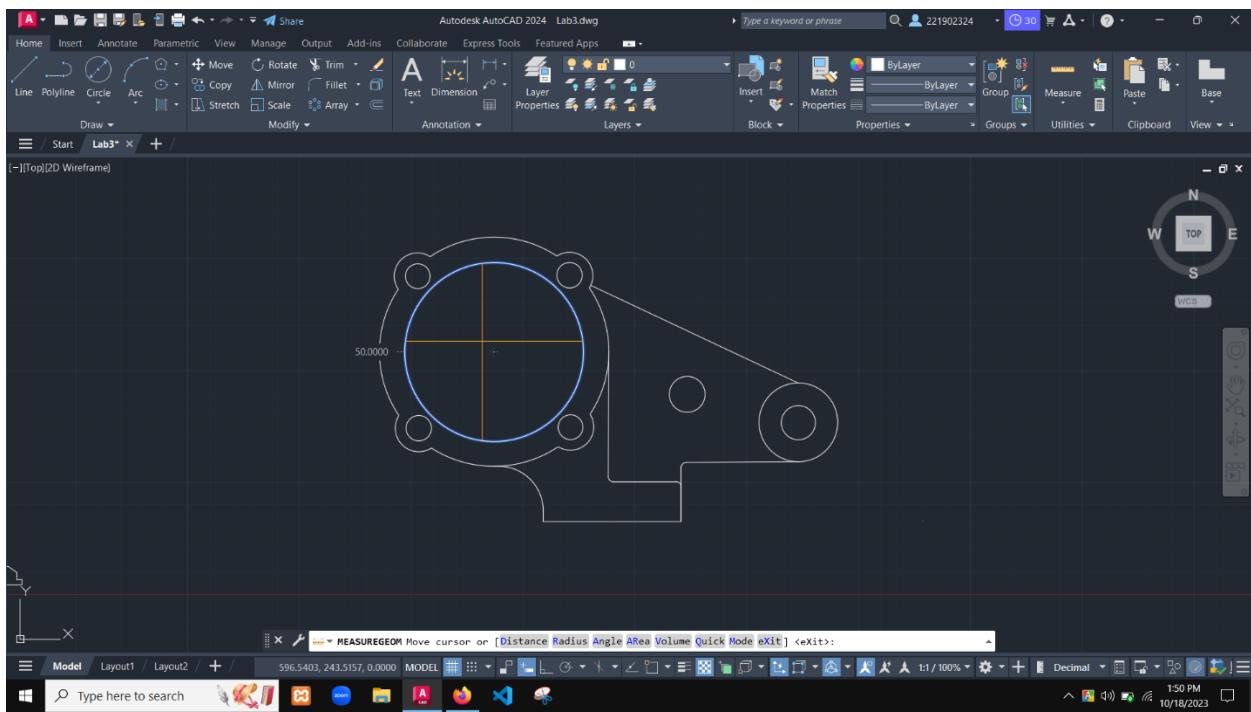
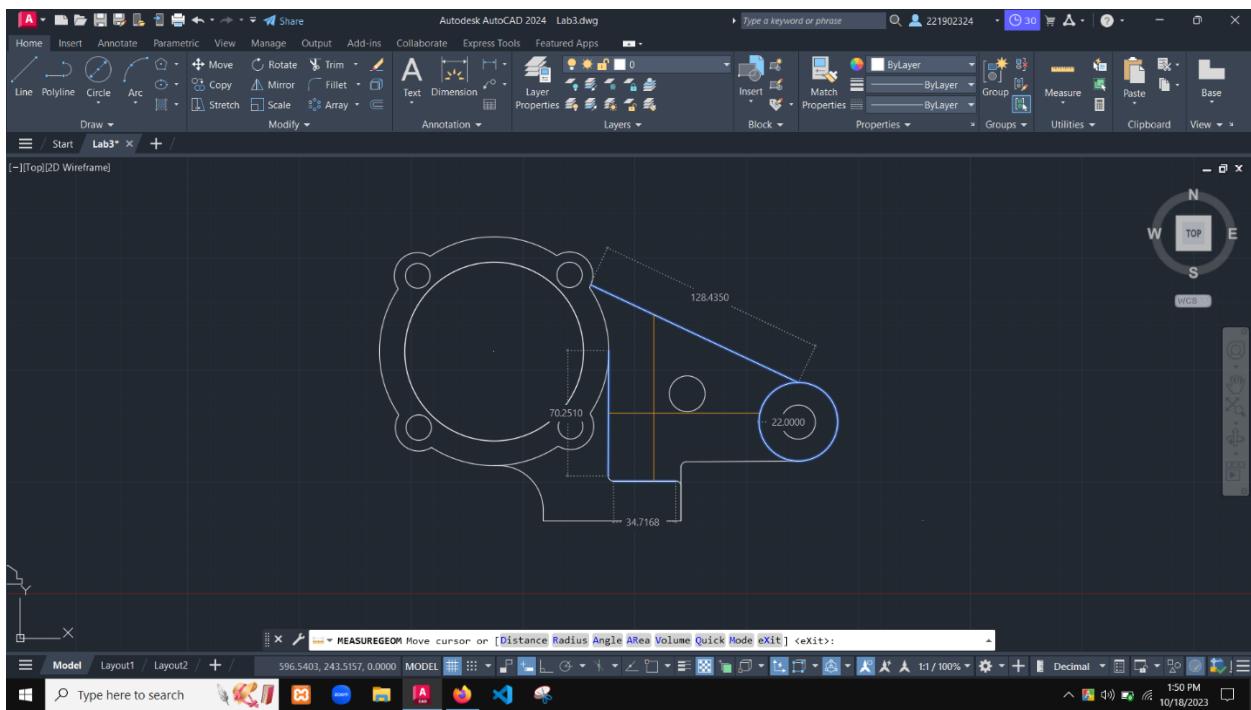
14. Select measure tool to see the measures are correct or not according to our task.
15. Select circle according to units for draw circles one inside and other is outside. Units are 19 and 44.

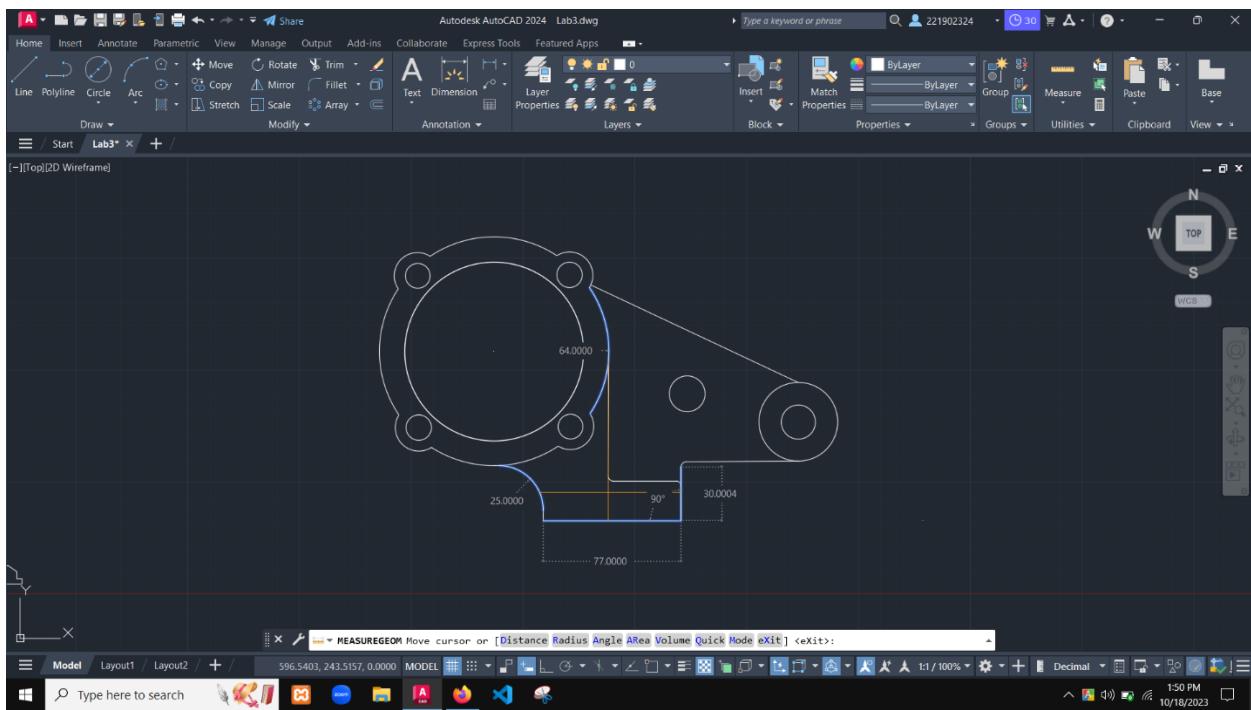


16. Draw lines from center .









ANALYSIS AND DISCUSSION

1. I tried my best to show the result of the experiment.
2. I like tools which are both friendly as well as sometimes difficult. .
3. The tasks is not only time consuming also advance task.
3. After all, measuring and units were good enough to complete the task.