



**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 # 04**  
**Course Title: Engineering Drawing**  
**Course Code: CSE 208      Section: D3**

**Lab Experiment Name: Three-Dimensional Drawing using AutoCAD**

**Student Details**

Name		ID
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**Lab Date** : 17/12/2023  
**Submission Date** : 21/12/2023  
**Course Teacher's Name** : Mohammad Ehsan Shahmi Chowdhury

Lab Report Status	
<b>Marks:</b> .....	<b>Signature:</b> .....
<b>Comments:</b> .....	<b>Date:</b> .....

## LAB SHEET 11 A

### 1. TITLE OF THE LAB REPORT EXPERIMENT

Three-Dimensional Drawing using AutoCAD

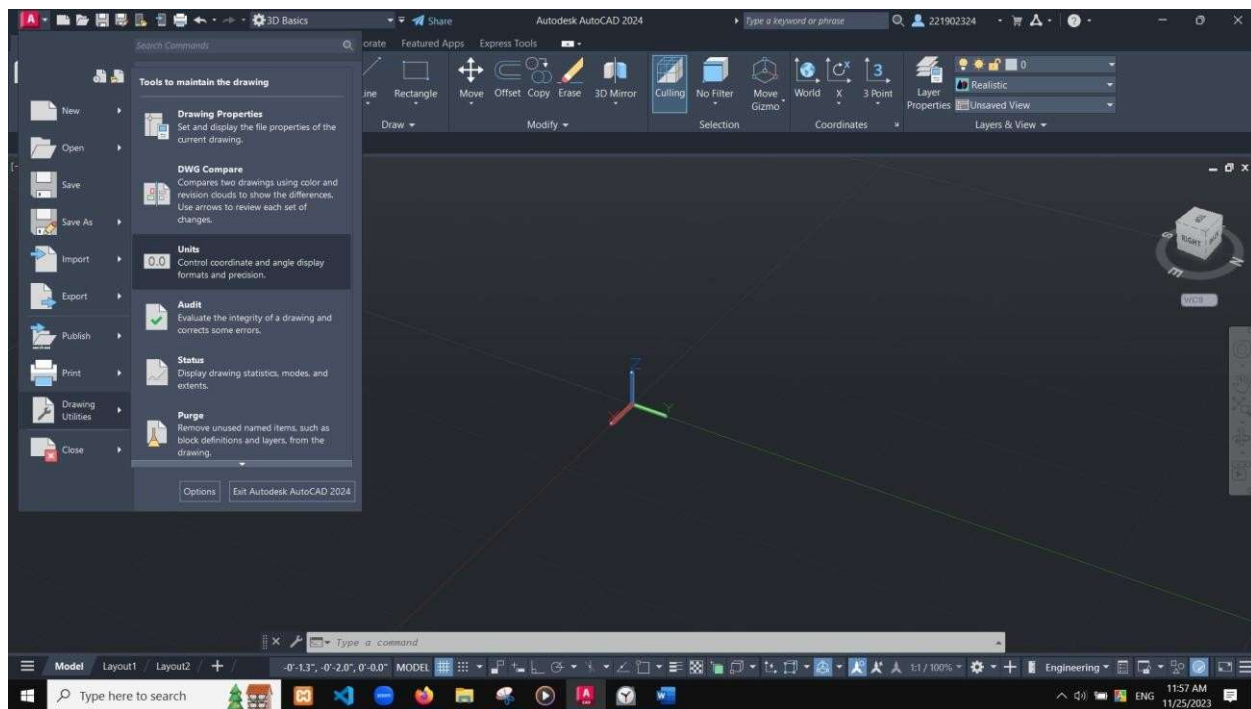
### 2. OBJECTIVES/AIM

- To familiarize with Engineering Drawing and AutoCAD.
- To implement the skills to develop basic 3D drawings

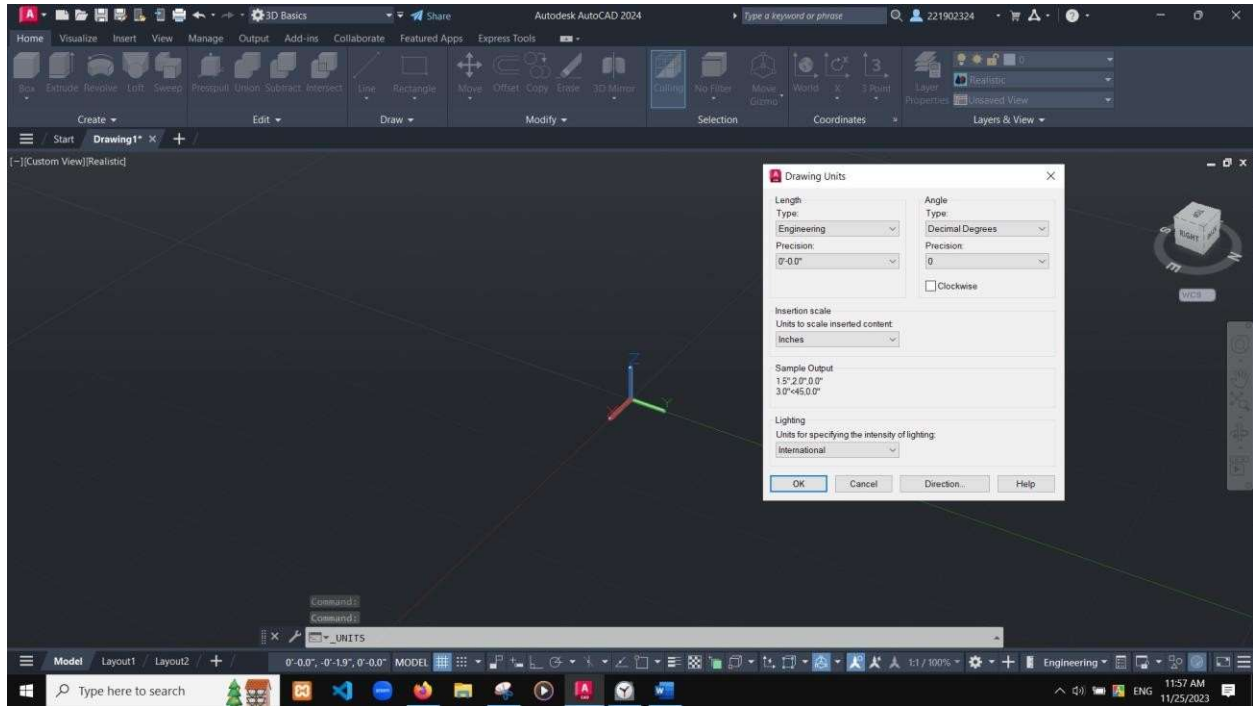
### 3. PROCEDURE

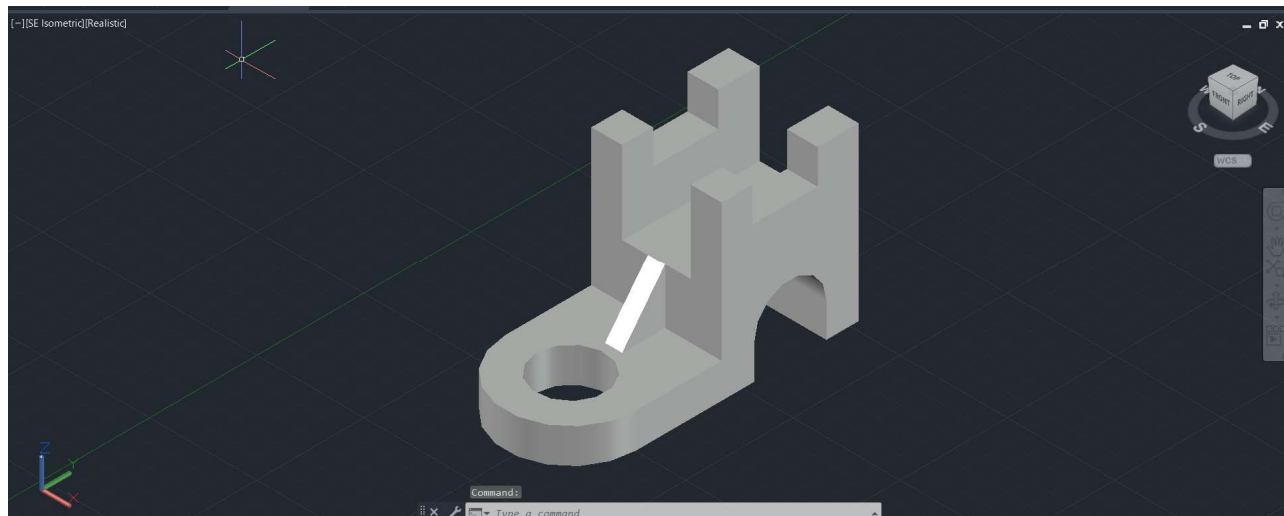
Detailed steps to draw Drawing 1:

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

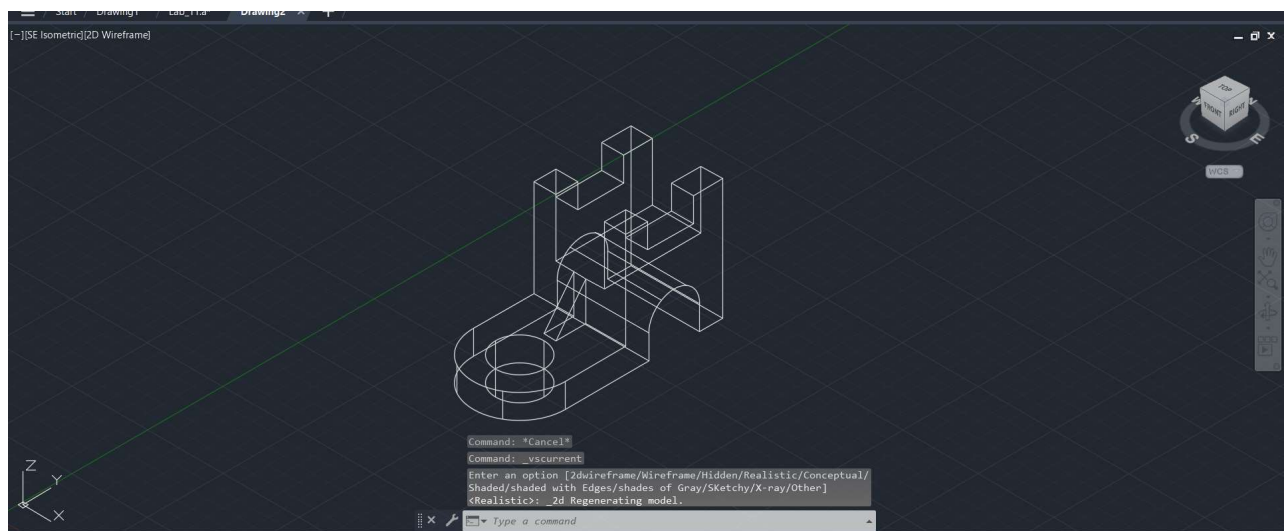


2. Then select unit option from drawing utilities which is given below :

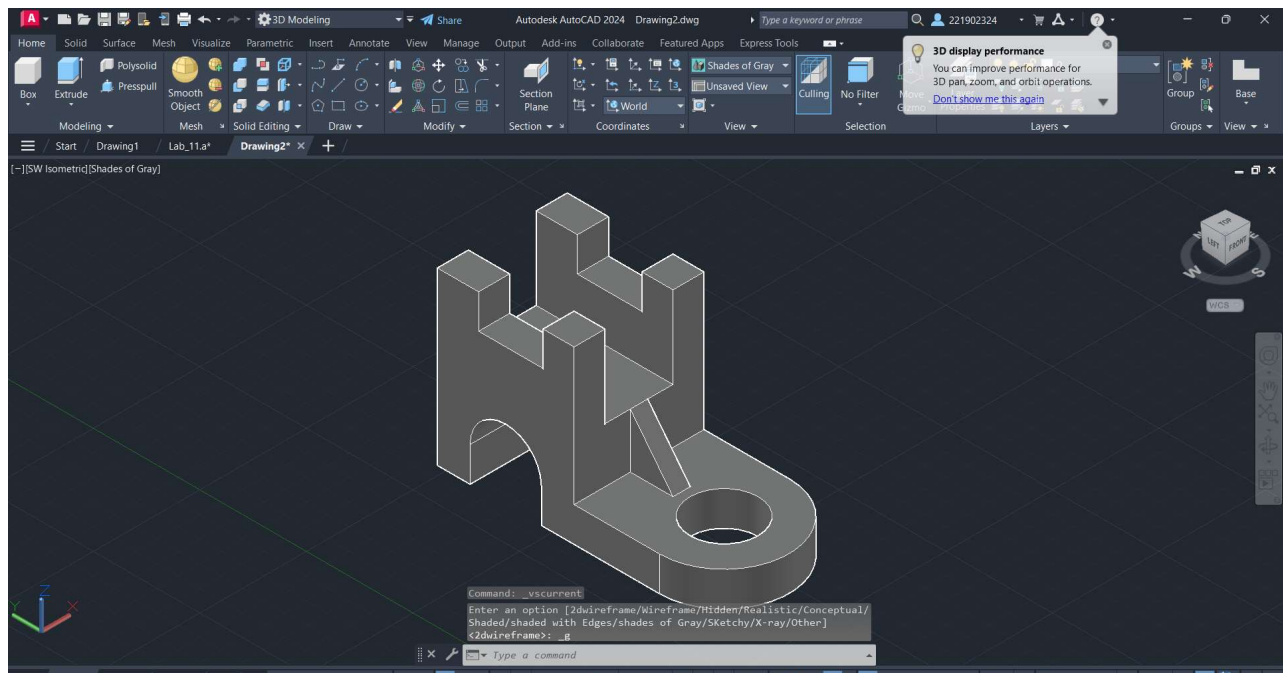
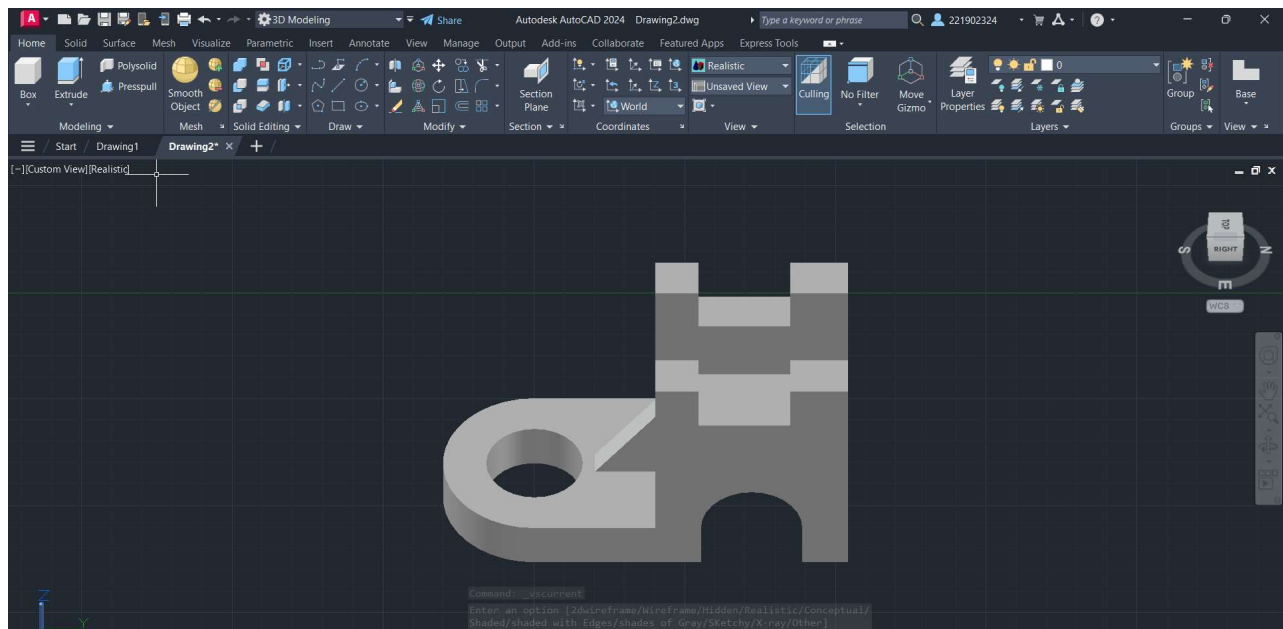




Realistic Visual style (set as default)



2D WIREFRAM Visual style



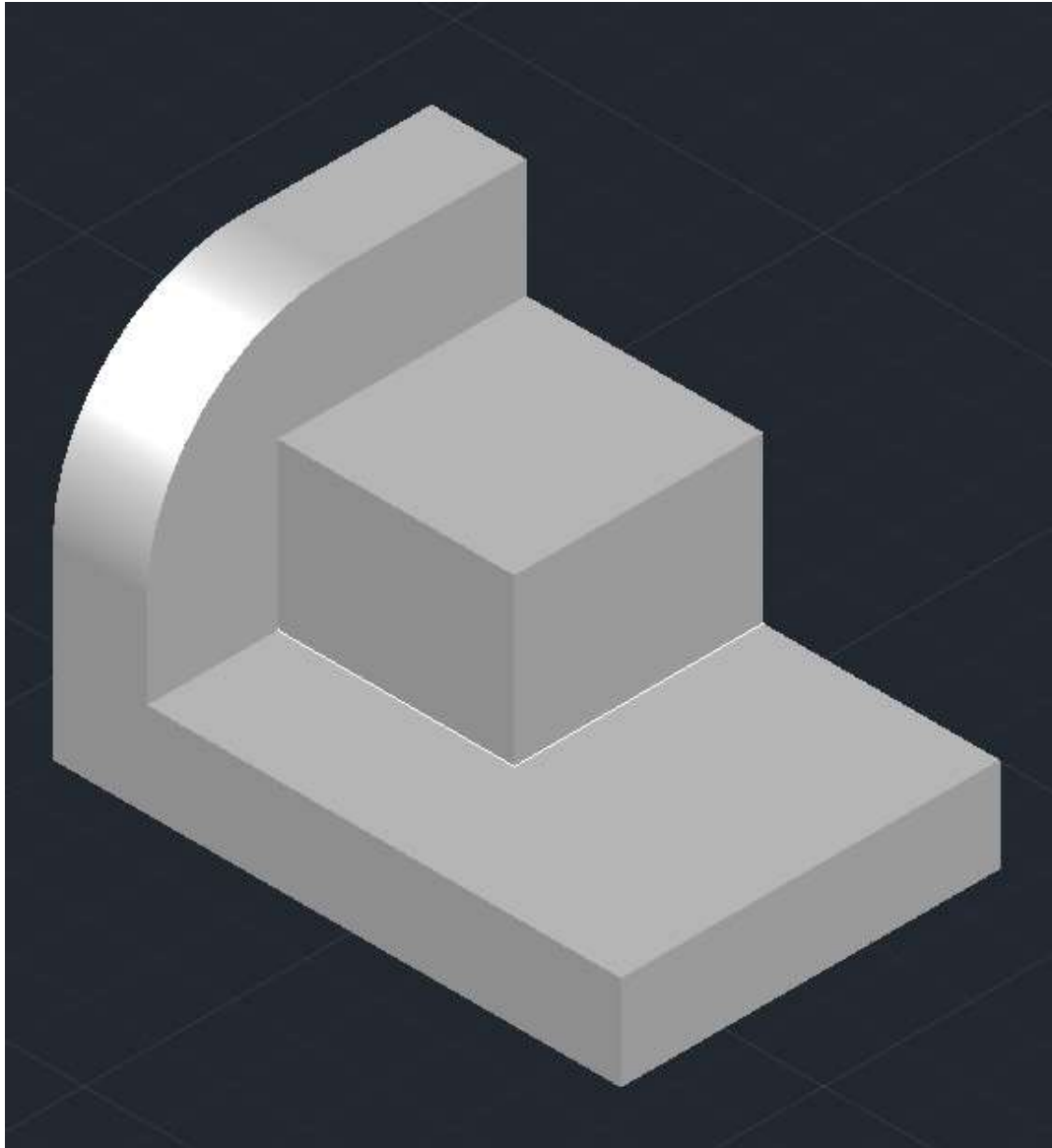
Shades of gray visual style

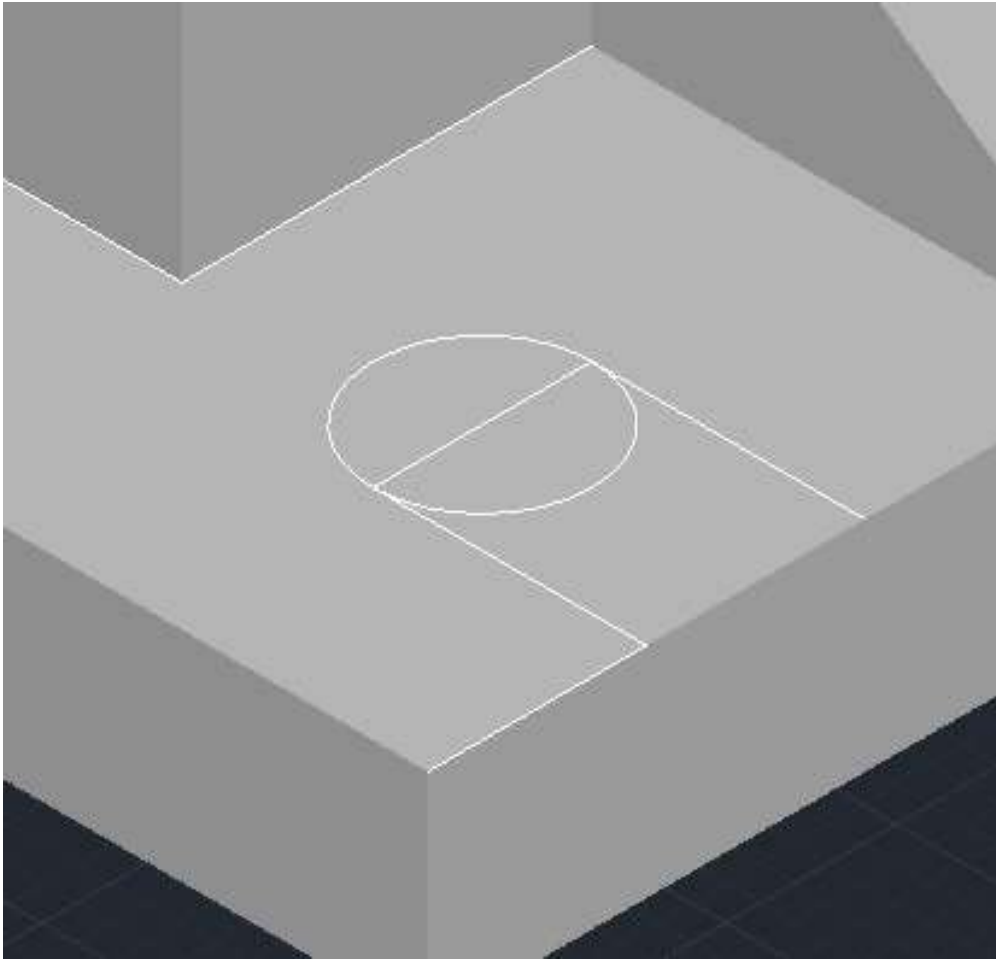
## **LAB SHEET 11B**

### **Procedure:**

1. Tools used : presspull, square, line, fillet

First draw a 3D shape taking length as 96, breadth as 64 and height as 16.







2. Draw a 3D shape taking length as 64, breadth as 16 and height as 48 respectively on top of the first object.  
And selected Fillet Edge selecting radius as 32.

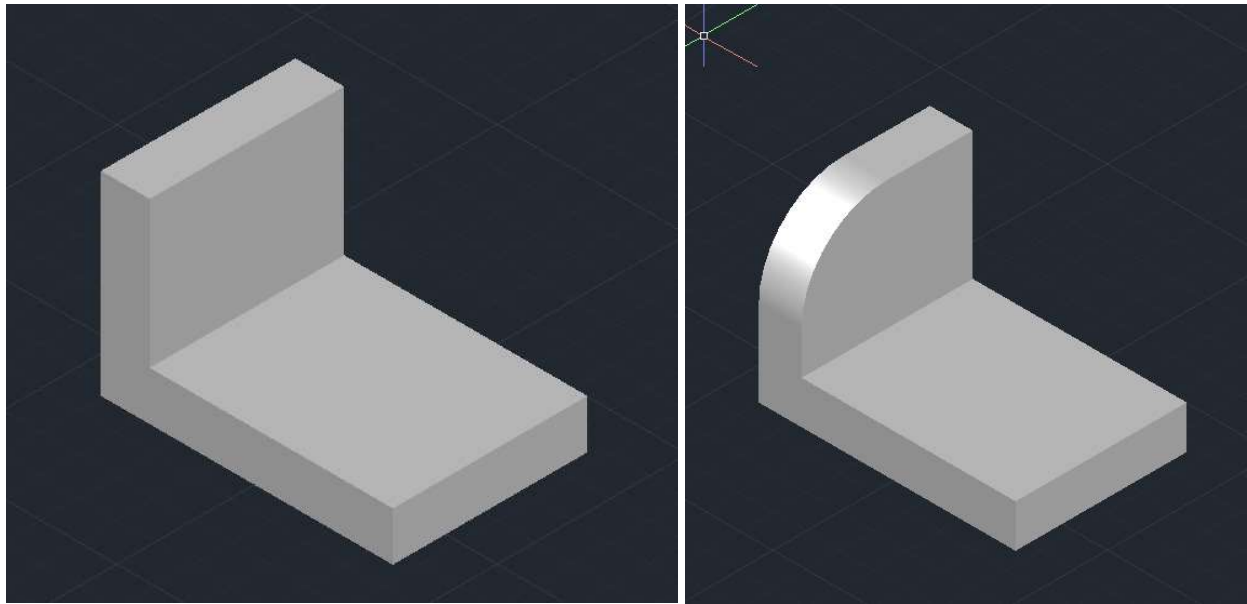
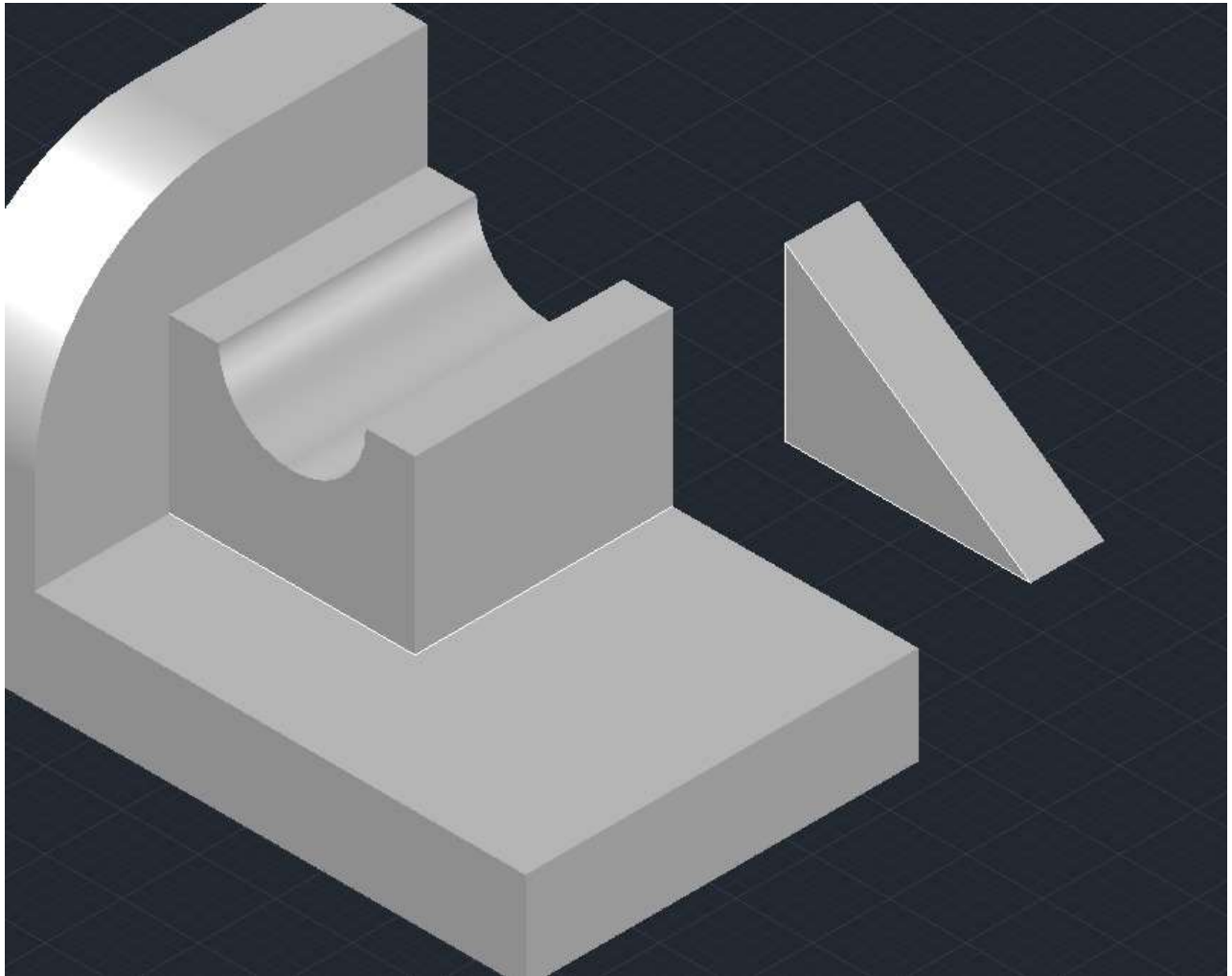
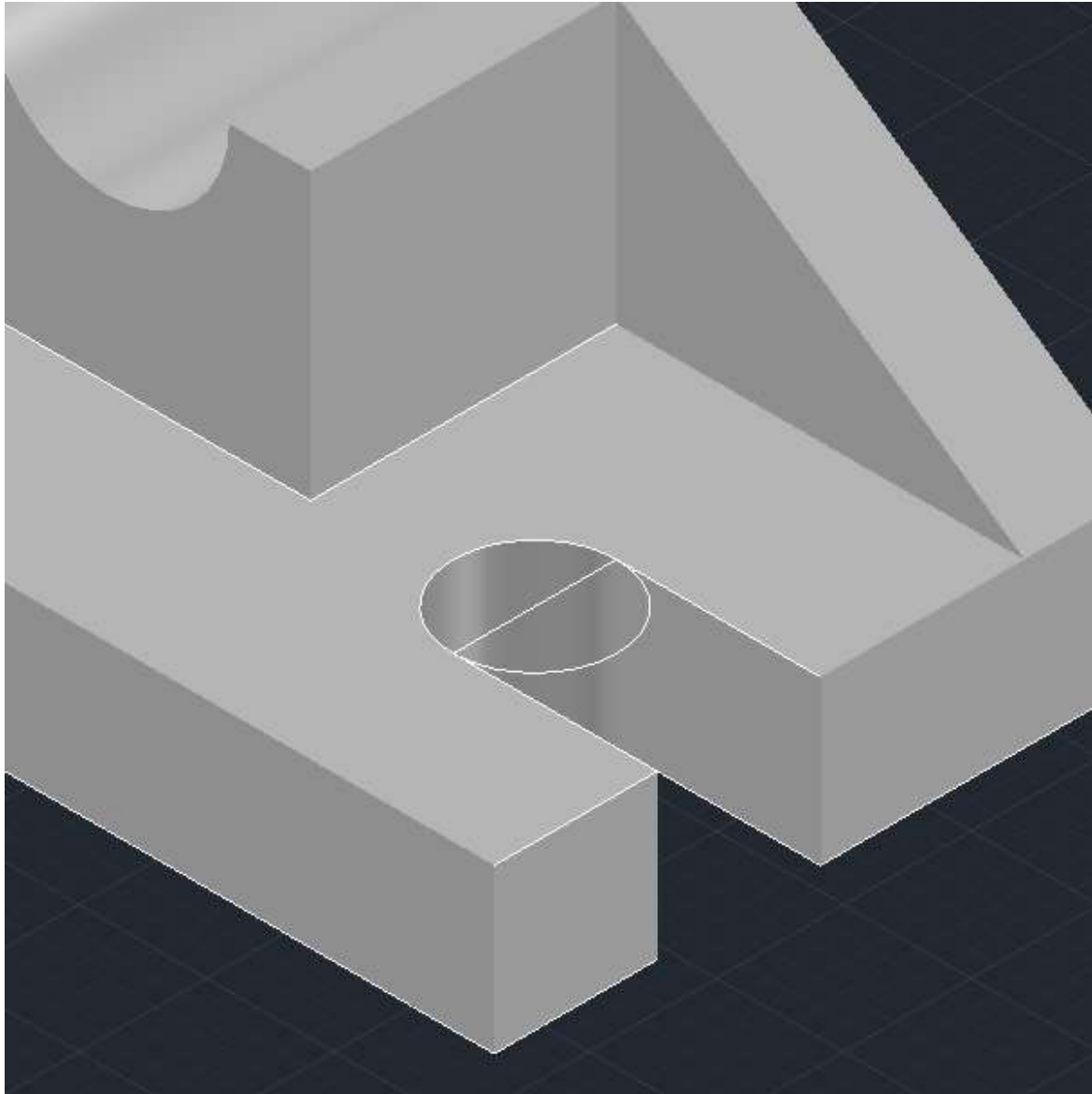


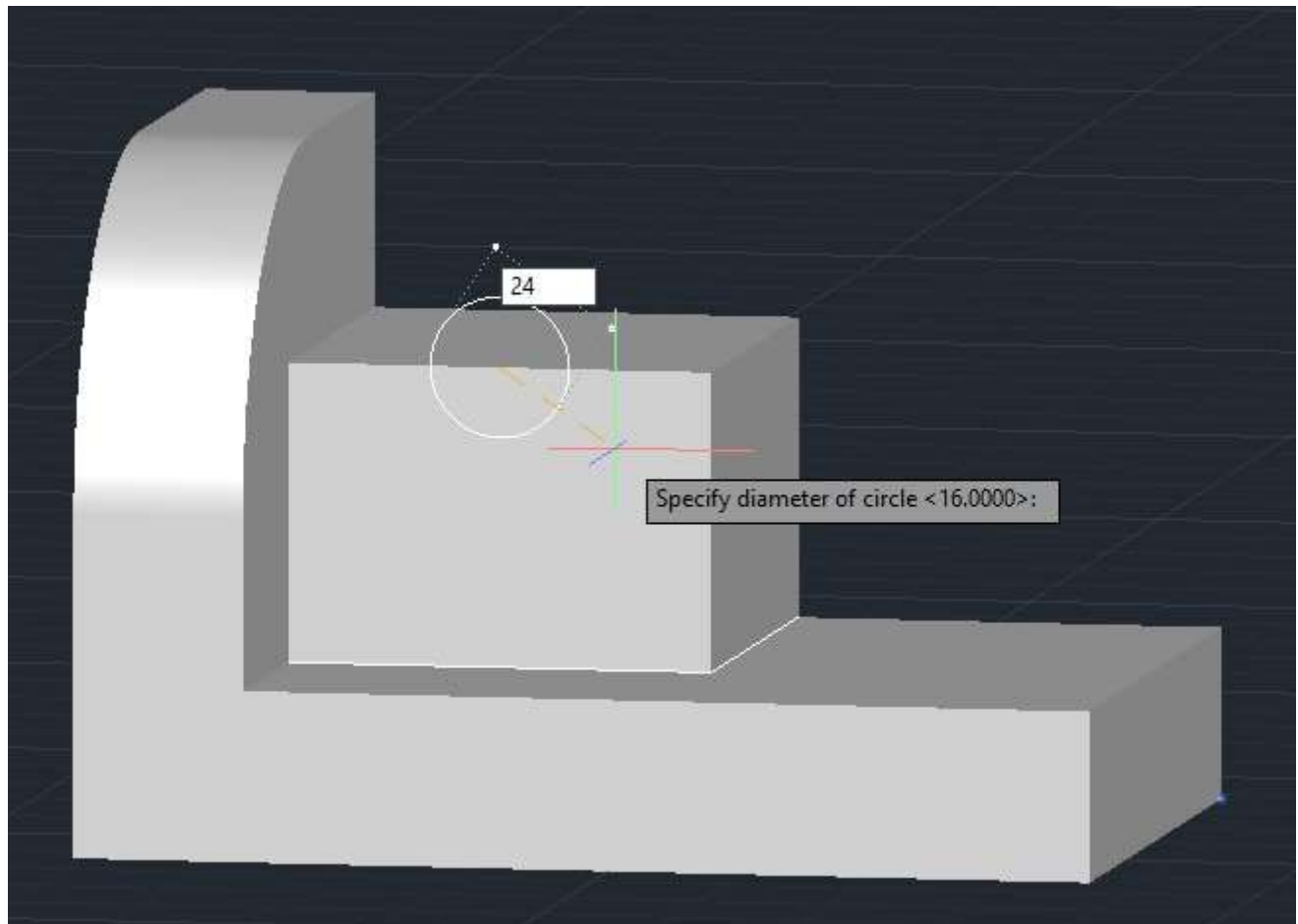
Figure:Before & After using fillet tool

3. Using the Press-pull tool pull the base shape up to 12 unit.





Step: On the 3D box draw a circle at the midpoint radius is 24



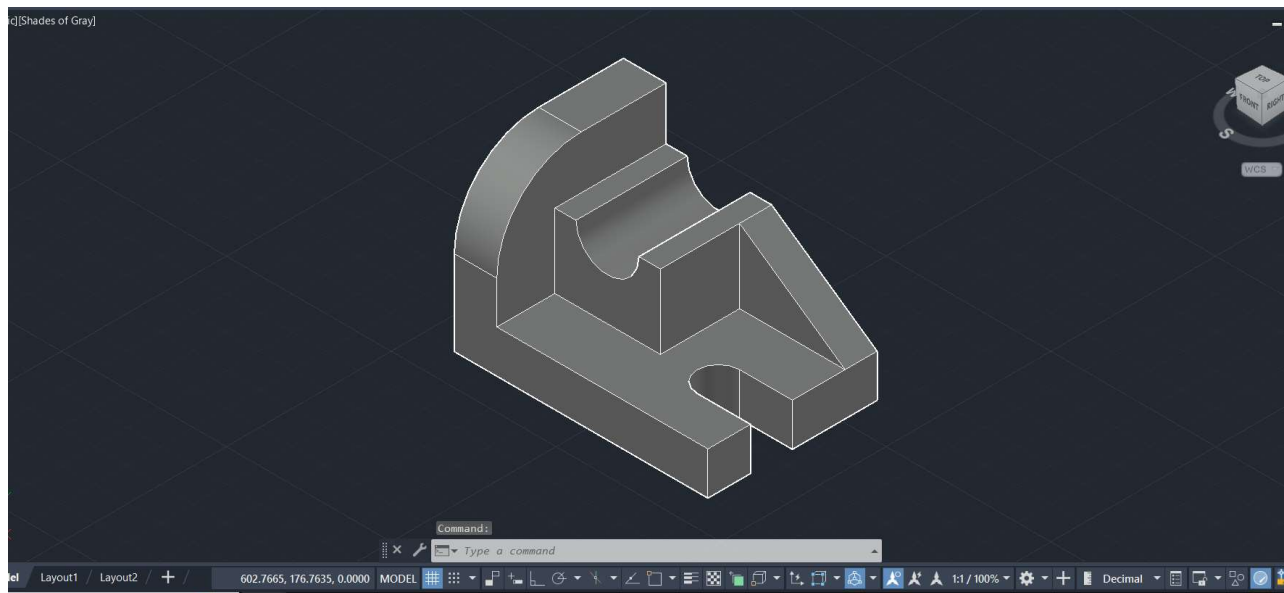
Finally , Draw the area using lines and circles that need to be removed.

- Remove the area using press-pull.

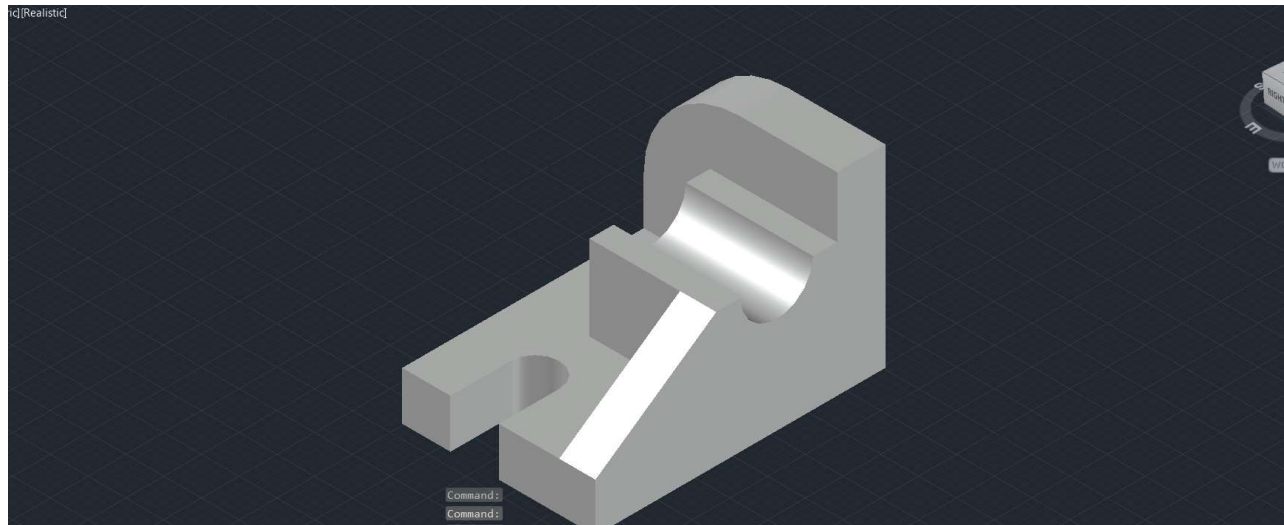
### ➤ DIFFERENT VIEWS OF THE MODEL



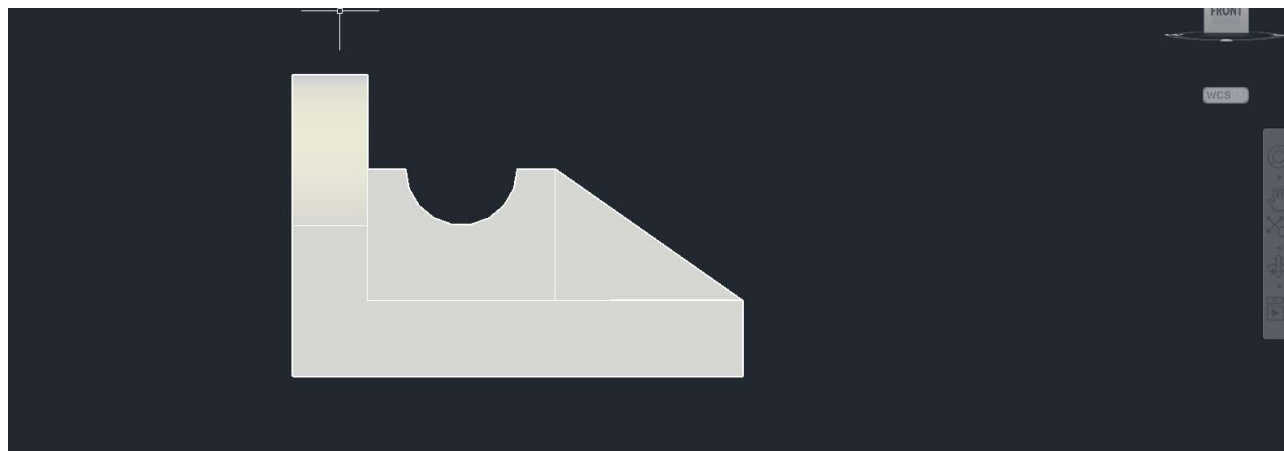
Realistic view



Shades of gray



Back+top mid point ( x,y,z point view)



conceptual front view



1. Now draw the second line which is 50 unit.

1. To undo the previous steps without exiting the PRESS/PULL command, enter ctrl+u (Undo).

2. When need using the erase tool.

### **ANALYSIS AND DISCUSSION**

The AutoCAD 3D design undertaken in this laboratory experiment has provided valuable insights into the application of computer-aided design in creating three-dimensional models. The primary objective of the project was to develop a comprehensive understanding of the software's capabilities and to apply them in the creation of a functional and aesthetically pleasing design.