



NAMAL UNIVERSITY, MIANWALI

Department of Electrical Engineering

EE-254– Engineering Drawing

Lab – 8

Multi View Drawings 1st and 3rd Angle Projection

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Date: _____

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Document History

Rev.	Date	Comment	Author
1.0	02-2022	Initial Draft	MB
1.1	05-2023	Revision	RS

Course Learning Outcomes

CLO1: Ability to read basic engineering drawings problems.

CLO3: Reproduce 2-D and 3-D sketches using AutoCAD by applying engineering drawing principles.

Equipment

- Software
 - AutoCAD 2016 Educational Version

Instructions

The following instructions are to be followed while performing in the labs.

- The manual must be thoroughly read before starting the lab.
- The theoretical concepts related to the lab and experiments must be revised.
- All attempts shall be made to complete the lab during the lab session.
- Any attempt to plagiarize from any source will be reported to the disciplinary committee for further action so keep the work original.
- Carefully use the laboratory equipment.

Objectives

- To get hands on experience of AutoCAD software.

Background Information

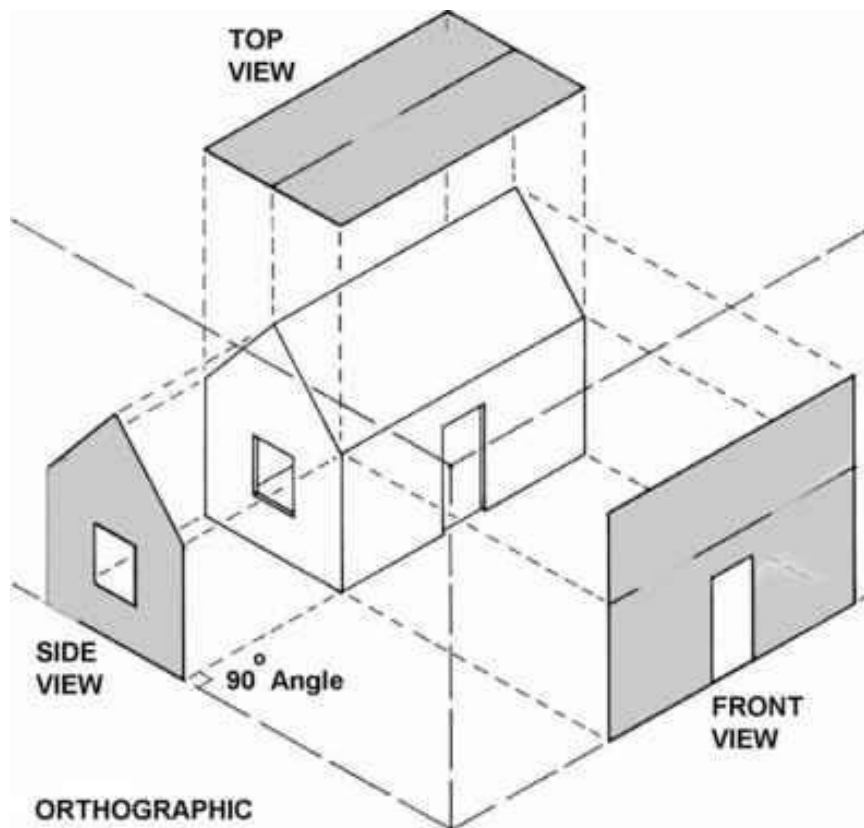
To manufacture a component, you must create its engineering drawing. The engineering drawing consists of various views of the object, showing its true shape and size so they can be clearly dimensioned. This can be achieved by creating the orthographic views of the object. The auxiliary views clearly describe the features of a component, which are located on an inclined plane or surface.

Orthographic Views

Orthographic Views are standard representations of an object on a sheet. These views are created by projecting an object onto three different planes (top plane, front plane, and side plane). You can project an object by using two different methods:

First Angle Projection

First angle projection is one of the methods used for orthographic projection drawings and is approved internationally except the United States. In this projection method, the object is placed in the first quadrant and is positioned in front of the vertical plane and above the horizontal plane.



Third Angle Projection

3rd Angle project is where the 3D object is seen to be in the 3rd quadrant. It is positioned below and behind the viewing planes, the planes are transparent, and each view is pulled onto the plane closest to it. The front plane of projection is seen to be between the observer and the object.

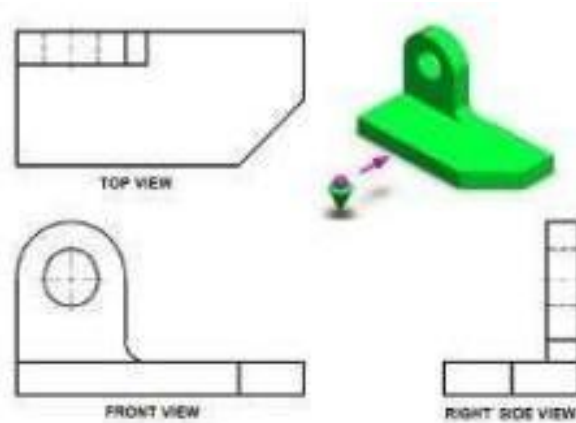
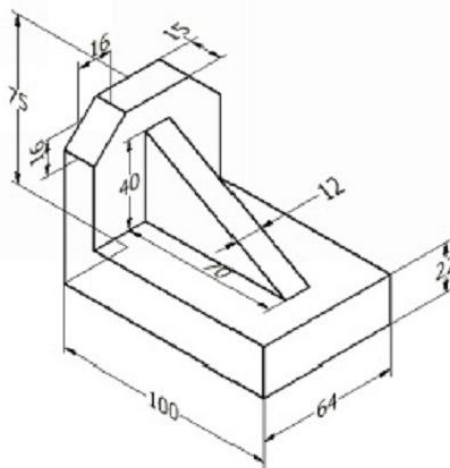


Figure 6: Third Angle Orthographic Views

Example:

In this example, you will create the orthographic views of the part shown below. The views will be created by using the **Third Angle Projection method**.



- Open a new drawing using the acadISO –Named Plot Styles.dwt template.
- Click the Layer Properties button on the Layer panel; the Layer Properties Manager appears.
- Click the New Layer button on the Layer Properties Manager to create new layers.
- Create two new layers with the following properties.

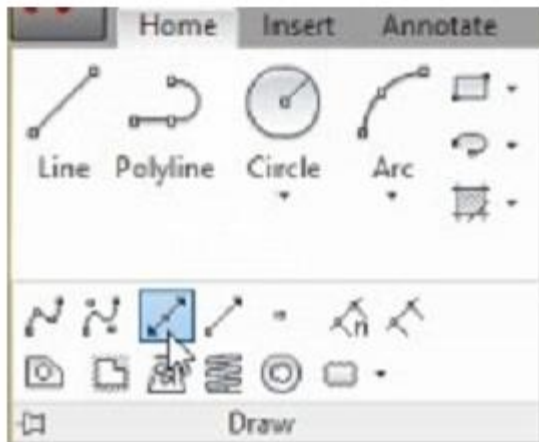
Table 1: Layers with setting information

Layer Name	Line Weight	Line Type
Construction layer	0.00mm	Continuous
Object Layer	0.50mm	Continuous

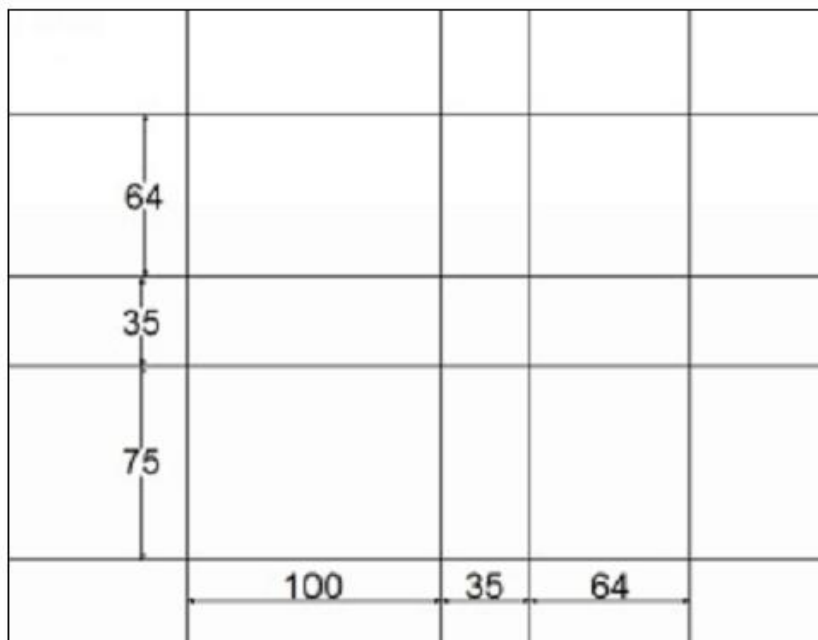
- Right-click on the Construction layer and select Set current.
- Close the Layer Properties Manager.
- Activate the Ortho Mode icon on the status bar.
- Click Zoom > Zoom All on the Navigation Bar

Next, you need to draw construction lines. They are used as references to create actual drawings. You will create these construction lines on the Construction layer so that you can hide them when required.

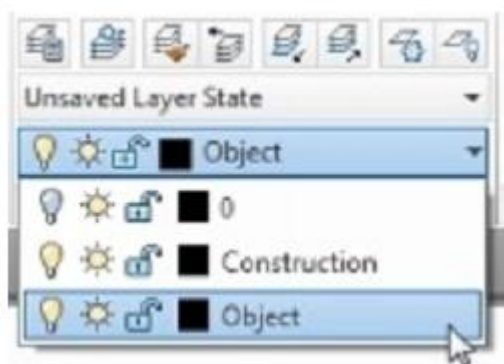
- Click Home > Draw > Construction line on the ribbon or enter XLINE in the command line.



- Click anywhere in the lower left corner of the graphics window.
- Move the pointer upward and click to create a vertical construction line.
- Move the pointer toward right and click to create a horizontal construction line.
- Press ENTER to exit the tool.
- Click the Offset button on the Modify panel.
- Type 100 as the offset distance and press ENTER.
- Select the vertical construction line.
- Move the pointer toward right and click to create an offset line.
- Right-click and select Enter to exit the Offset tool.
- Press the SPACEBAR on the keyboard to start the Offset tool again.
- Type 75 as the offset distance and press ENTER.
- Select the horizontal construction line.
- Move the pointer above and click to create the offset line.
- Press ENTER to exit the Offset tool.
- Likewise, create other offset lines as shown below:

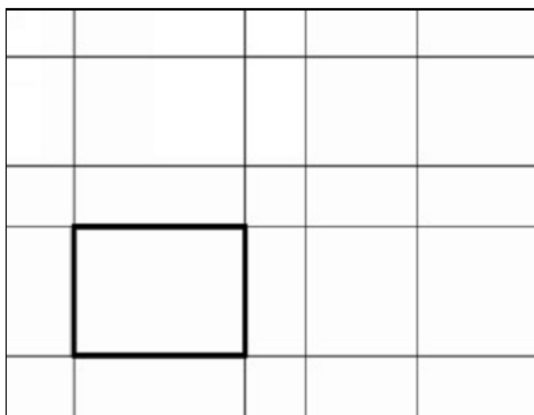


- Activate the Object layer.

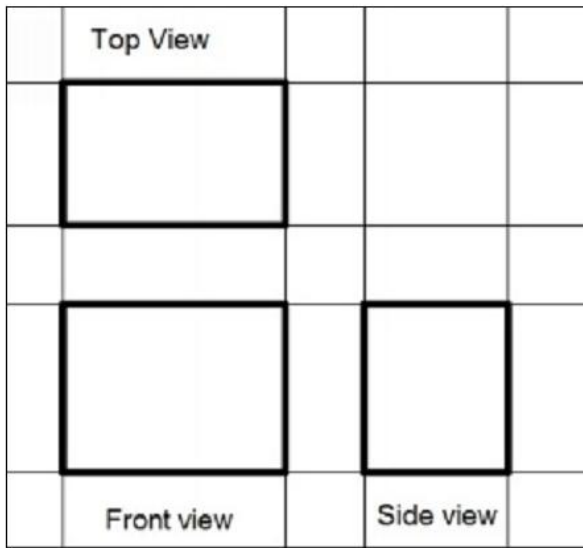


Now, you must create object lines.

- Click the Line button on the Draw panel.
- Create an outline of the front view by selecting the intersection points between the construction lines.

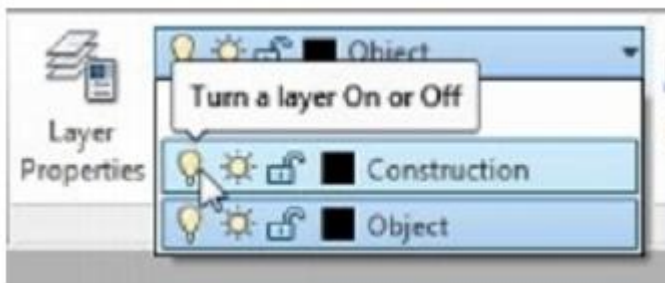


- Right-click and select Enter to exit the Line tool.
- Activate the Show/Hide Line weight button on the status bar.
- Likewise, create the outlines of the top and side views.

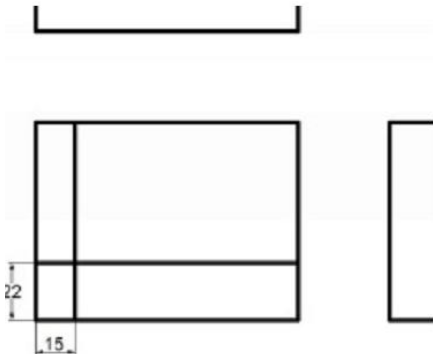


Next, you must turn off the Construction layer.

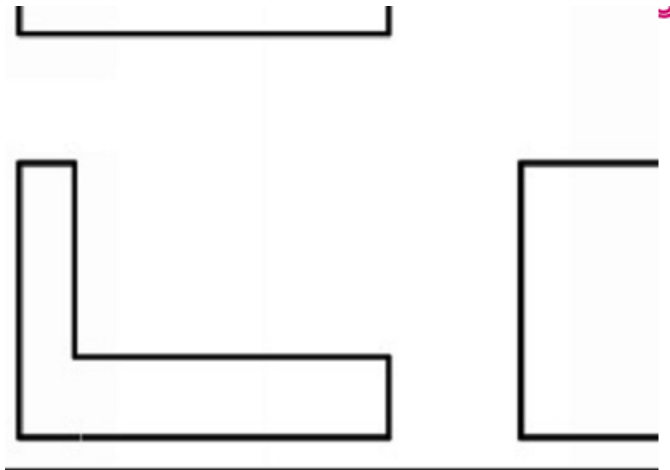
- Click on the Layer drop-down in the Layer panel.
- Click the light bulb of the Construction layer; the layer will be turned off.



- Use the Offset tool and create two parallel lines on the front view, as shown below.



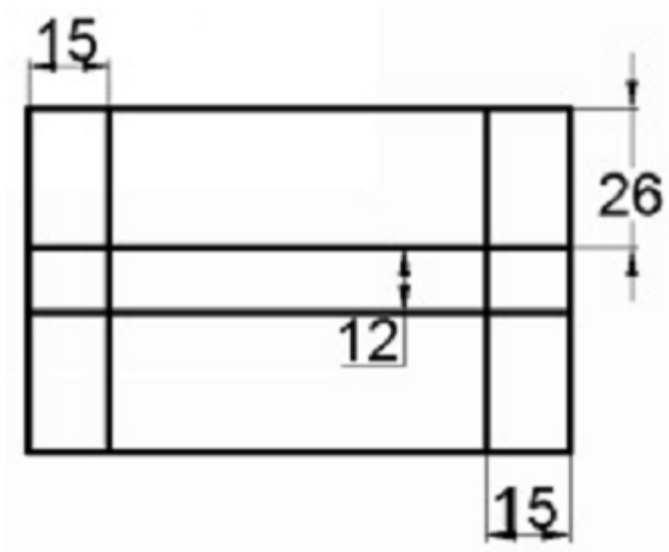
- Use the Trim tool and trim the unwanted lines of the front view as shown below.



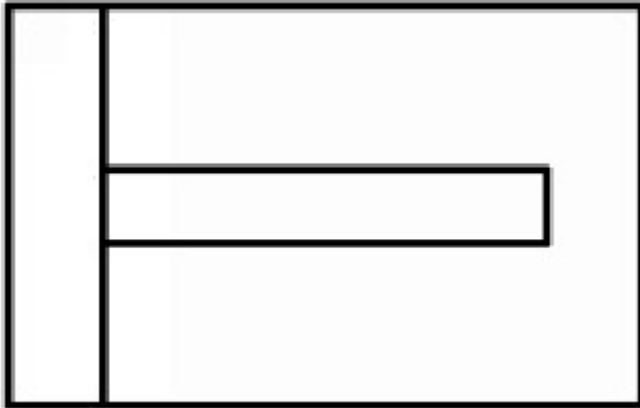
- Use the Offset tool to create the parallel line as shown below.



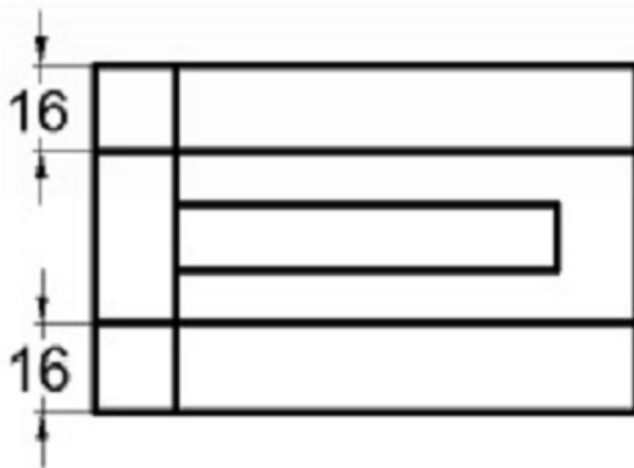
- Use the Offset tool and create offset lines in the Top view as shown below.



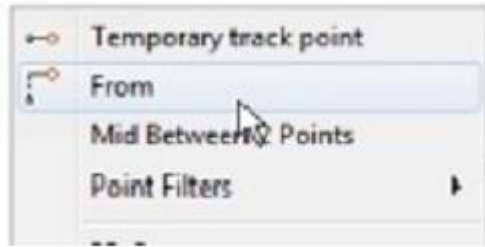
- Use the Trim tool and trim the unwanted objects.



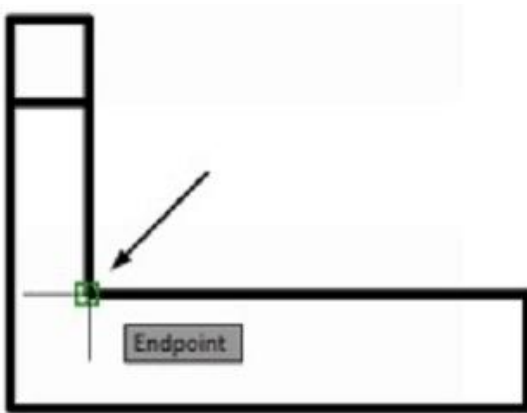
- Create other offset lines and trim the unwanted portions as shown below.



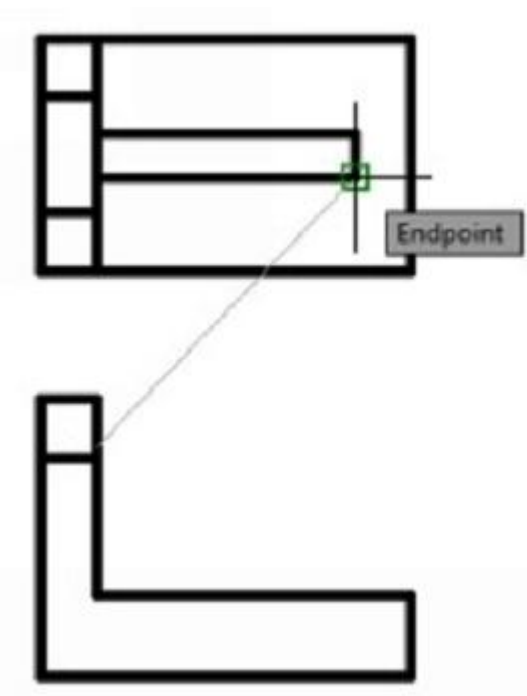
- Click the Line button on the Draw panel.
- Press and hold the SHIFT key and right-click. Select the from option.



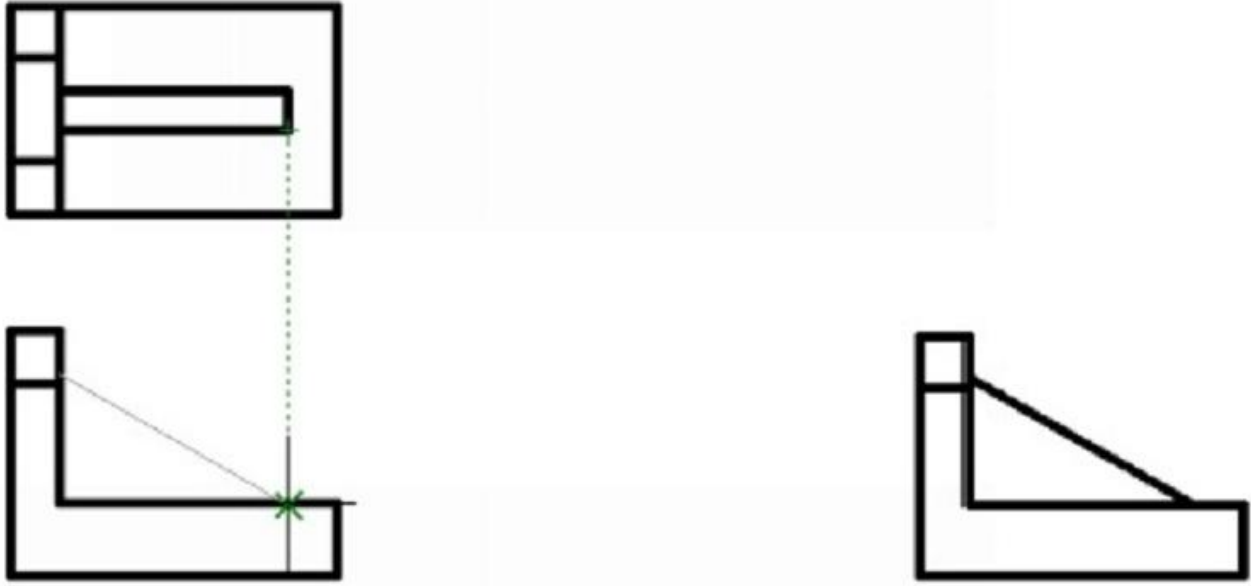
- Select the endpoint of the line in the front view as shown below.



- Move the pointer on the vertical line and enter 40 in the command line; the first point of the line is specified at a point 40 mm away from the endpoint. Also, a rubber band line will be attached to the pointer.
- Move the pointer onto the endpoint on the top view as shown below.



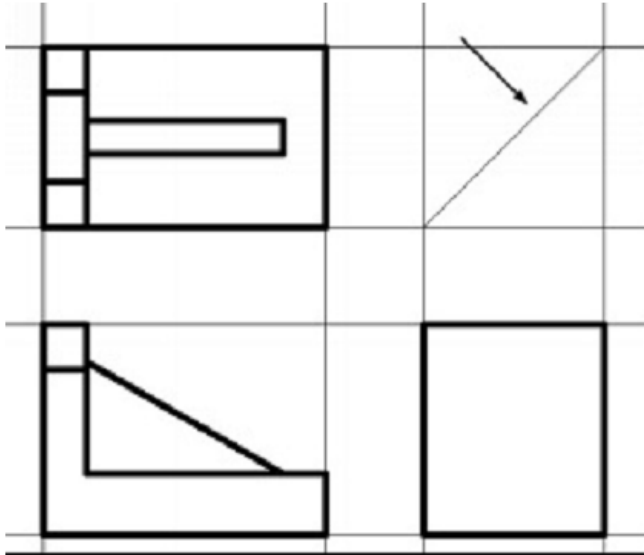
- Move the pointer vertically downward; you will notice track lines.
- Move the pointer near the horizontal line of the front view and click at the intersection point as shown below. Press ENTER to exit the tool.



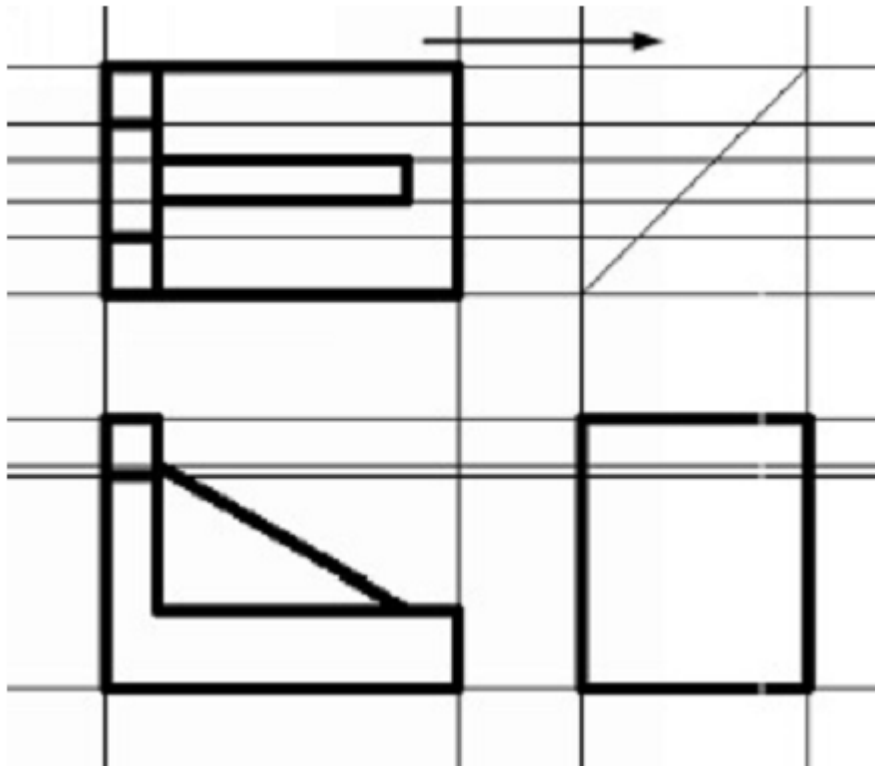
- Move the pointer near the horizontal line of the front view and click at the intersection point as shown below. Press ENTER to exit the tool.

Next, you must create the right-side view. To do this, you must draw a 45- degree miter line and project the measurements of the top view onto the side view.

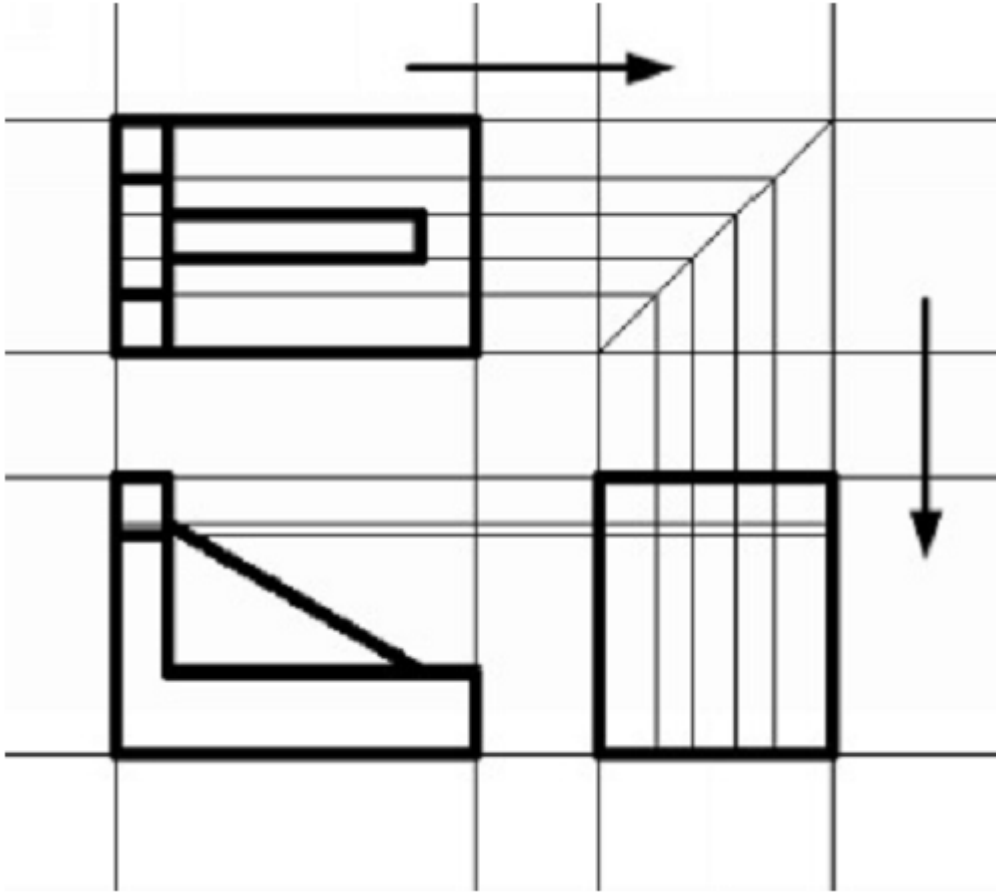
- Click on the Layer drop-down in the Layer panel.
- Click the light-bulb icon of the Construction layer; the Construction layer is turned on.
- Select the Construction layer from the Layer drop-down to set it as the current layer.
- Draw an inclined line by connecting the intersection points of the construction lines as shown below:



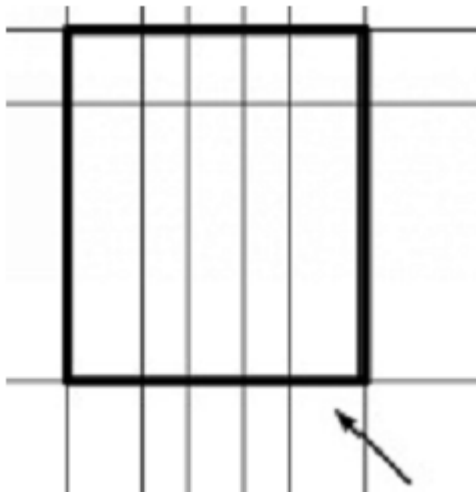
- Click the Construction Line button on the Draw panel.
- Select the Hor option from the command line and create the projection lines as shown below.



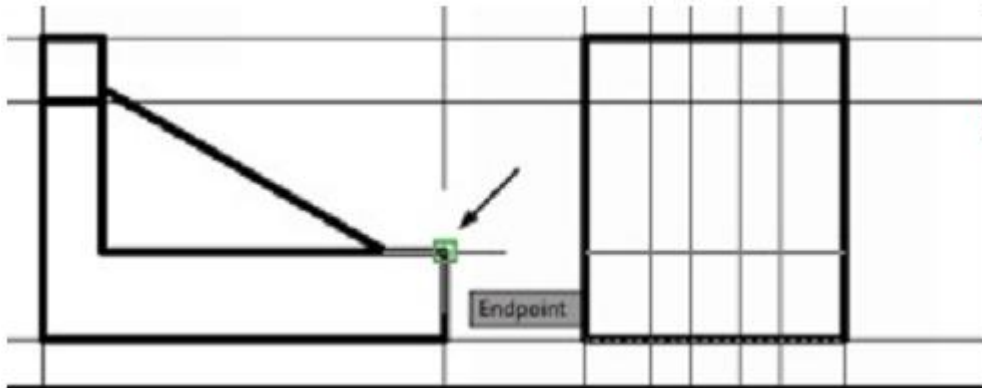
- Right-click to exit the Construction Line tool.
- Press ENTER and select the Ver option from the command line.
- Create the vertical projection lines as shown below.
- Use the Trim tool to trim the extend portions of the construction lines.



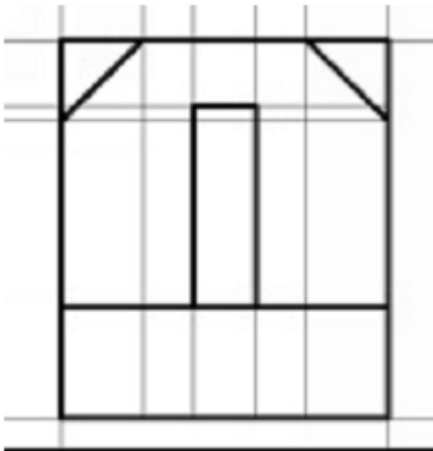
- Set the Object layer as current.
- Click the Offset button on the Modify panel.
- Select the Through option from the command line.
- Select the lower horizontal line of the side view.



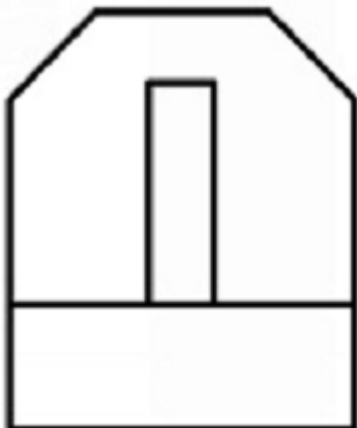
- Select the end point on the front view as shown below.



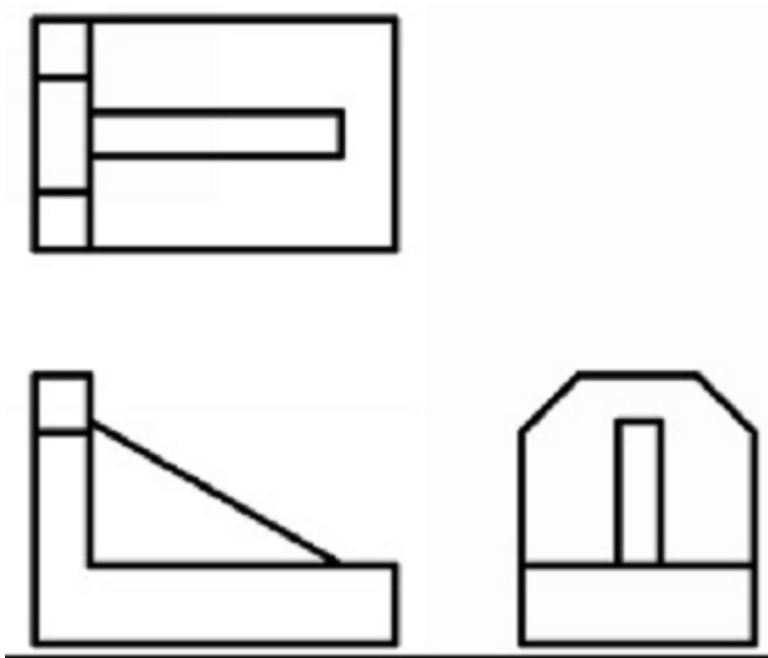
- Click Exit in the command line.
- Use the Line tool and create the objects in the side view as shown below.



- Turn off the Construction layer by clicking on the lightbulb of the Construction layer.
- Trim the unwanted portions on the right-side view.



The drawing after creating all the views is shown below.



- Save the file as ortho_views.dwg. Close the file.

Task

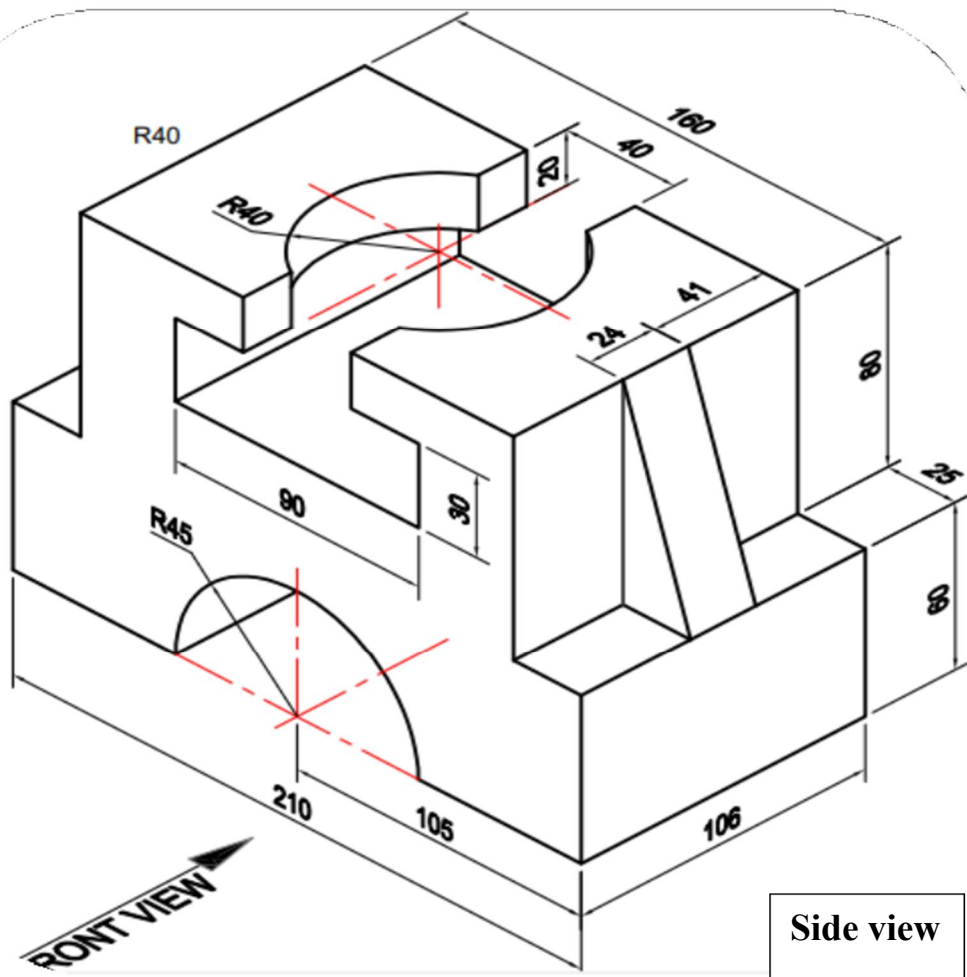
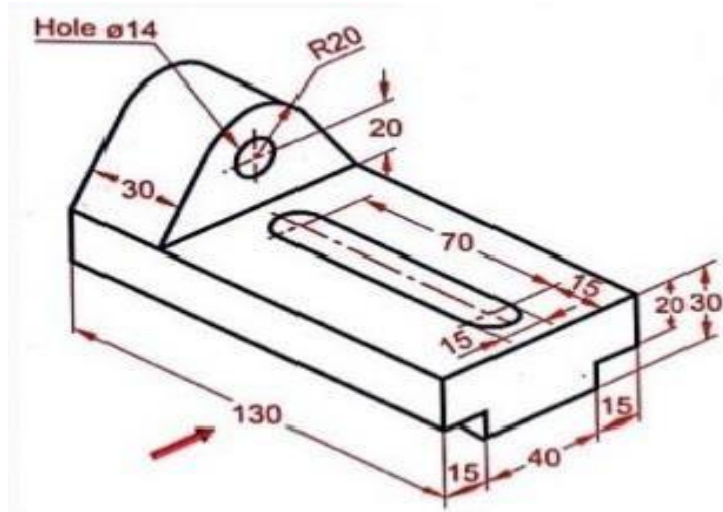
Draw the following views in 1st or 3rd angle orthographic projection:

1.1 The front view (as shown by the arrow)

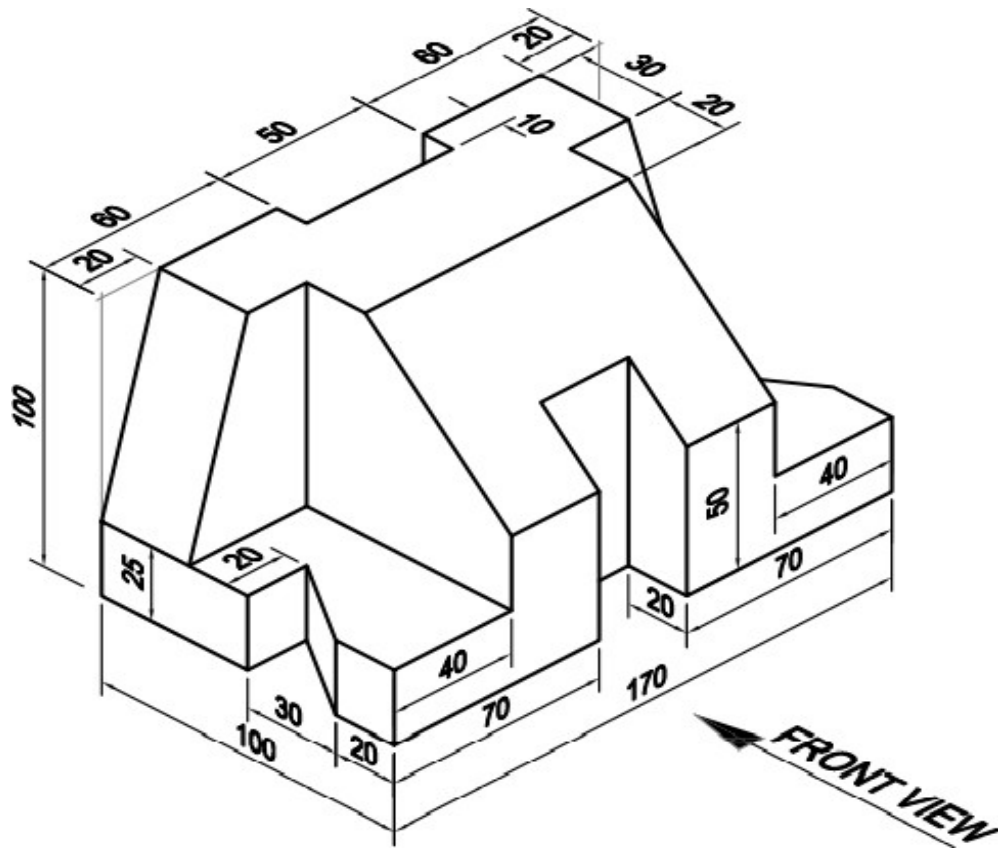
1.2 The top view

1.3 The left/Right view

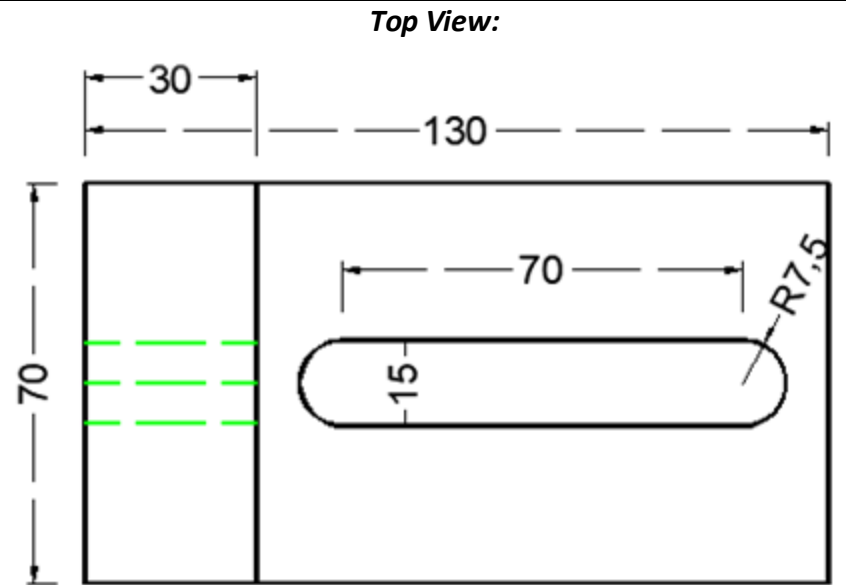
Show all hidden detail and center line.



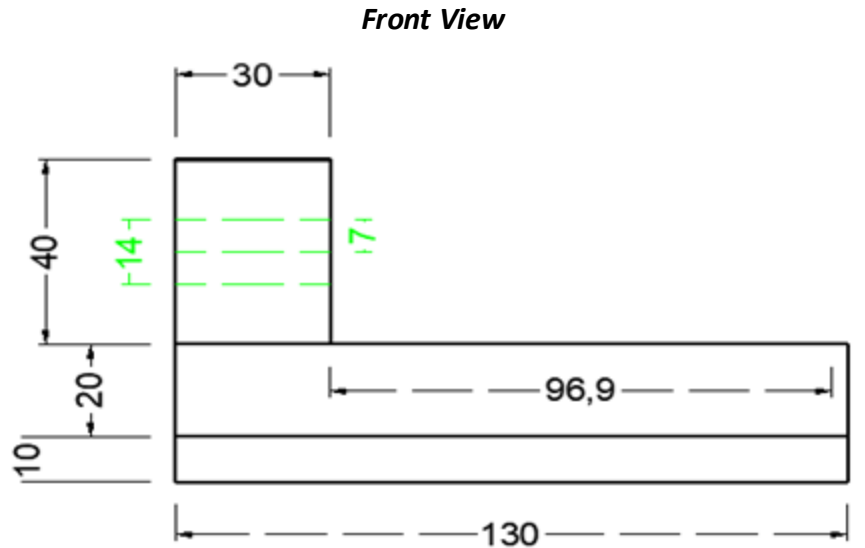
Side view



18



Top View:



Side View

Front View

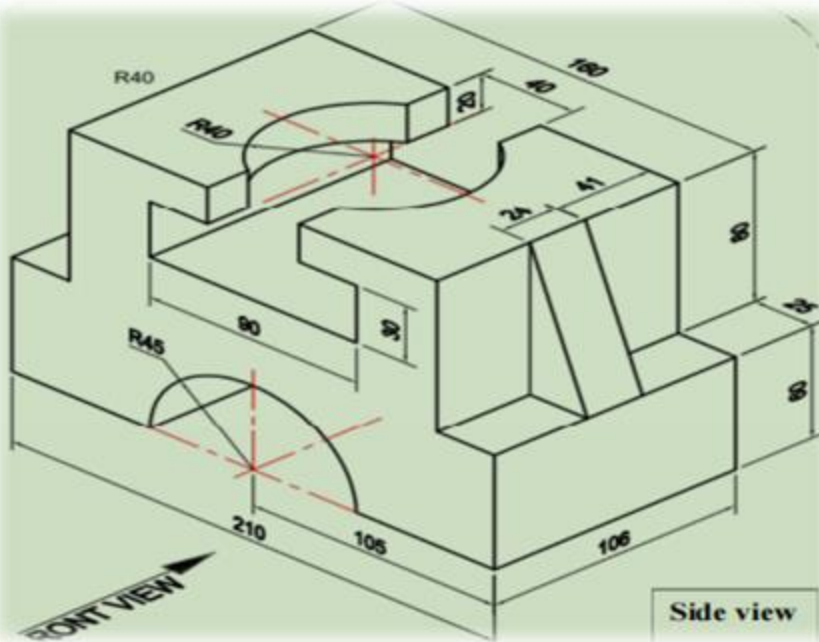
Task 1 Commands

<p>Select object to trim or shift-select to extend or [cuTting edges/Crossing/mOde/Project/eRase/Undo]: *Cancel*</p> <p>Command:</p> <p>Command:</p> <p>** STRETCH **</p> <p>Specify stretch point or [Base point/Copy/Undo/eXit]:</p> <p>Specify stretch point or [Base point/Copy/Undo/eXit]:</p> <p>Command: *Cancel*</p> <p>Command:</p> <p>Command:</p> <p>** STRETCH **</p> <p>Specify stretch point or [Base point/Copy/Undo/eXit]:</p> <p>Specify stretch point or [Base point/Copy/Undo/eXit]:</p> <p>Command: *Cancel*</p> <p>Command: TRIM</p> <p>Current settings: Projection=View, Edge=None, Mode=Quick</p> <p>Select object to trim or shift-select to extend or [cuTting edges/Crossing/mOde/Project/eRase]:</p> <p>Select object to trim or shift-select to extend or [cuTting edges/Crossing/mOde/Project/eRase/Undo]:</p> <p>Select object to trim or shift-select to extend or [cuTting edges/Crossing/mOde/Project/eRase/Undo]: _u</p> <p>Select object to trim or shift-select to extend or [cuTting edges/Crossing/mOde/Project/eRase/Undo]: *Cancel*</p> <p>Command: Specify opposite corner or [Fence/WPolygon/CPolygon]: *Cancel*</p> <p>Command:</p> <p>Command: *Cancel*</p> <p>Command:</p> <p>Command: _dim</p> <p>Select objects or specify first extension line origin or</p>	<p>Command: *Cancel*</p> <p>Command: *Cancel*</p> <p>Command: Specify opposite corner or [Fence/WPolygon/CPolygon]: *Cancel*</p> <p>Command: *Cancel*</p> <p>Command:</p> <p>Command: _erase 1 found</p> <p>Command: *Cancel*</p> <p>Command:</p> <p>Command: Specify opposite corner or [Fence/WPolygon/CPolygon]: *Cancel*</p> <p>Command: *Cancel*</p> <p>Command:</p> <p>Command: MI</p> <p>MIRROR 1 found</p> <p>Specify first point of mirror line:</p> <p>Specify second point of mirror line:</p> <p>Erase source objects? [Yes/No] <No>: *Cancel*</p> <p>Command: MIRROR</p> <p>Select objects: 1 found</p> <p>Select objects:</p> <p>Specify first point of mirror line:</p> <p>Specify second point of mirror line:</p> <p>Erase source objects? [Yes/No] <No>: *Cancel*</p> <p>Command:</p> <p>Command: MIRROR</p> <p>1 found</p> <p>Specify first point of mirror line:</p> <p>Specify second point of mirror line:</p> <p>Erase source objects? [Yes/No] <No>: *Cancel*</p> <p>Command: TR</p> <p>TRIM</p> <p>Current settings: Projection=View, Edge=None, Mode=Quick</p> <p>Select object to trim or shift-select to extend or [cuTting edges/Crossing/mOde/Project/eRase]:</p> <p>Select object to trim or shift-select to extend or [cuTting edges/Crossing/mOde/Project/eRase/Undo]:</p> <p>Select objects: Specify opposite corner: 2 found (1 duplicate), 3 total</p> <p>Select objects:</p> <p>Command: o*Cancel*</p> <p>Command:</p> <p>Command:</p> <p>Command:</p>	<p>Select object to trim or shift-select to extend or [cuTting edges/Crossing/mOde/Project/eRase/Undo]:</p> <p>Select object to trim or shift-select to extend or [cuTting edges/Crossing/mOde/Project/eRase/Undo]: *Cancel*</p> <p>Command:</p> <p>Press ESC or ENTER to exit, or right-click to display shortcut menu.</p> <p>Command: REC</p> <p>RECTANG</p> <p>Specify first corner point or [Chamfer/Elevation/Fillet/Thickness/Width]:</p> <p>Specify other corner point or [Area/Dimensions/Rotation]: d</p> <p>Specify length for rectangles <70.0000>: 130</p> <p>Specify width for rectangles <20.0000>: 20</p> <p>Specify other corner point or [Area/Dimensions/Rotation]:</p> <p>Command:</p> <p>Press ESC or ENTER to exit, or right-click to display shortcut menu.</p> <p>Command: RECTANG</p> <p>Specify first corner point or [Chamfer/Elevation/Fillet/Thickness/Width]:</p> <p>Specify other corner point or [Area/Dimensions/Rotation]: d</p> <p>Specify length for rectangles <130.0000>: 10</p> <p>Specify width for rectangles <20.0000>: 10</p> <p>Specify other corner point or [Area/Dimensions/Rotation]:</p> <p>Command:</p> <p>Press ESC or ENTER to exit, or right-click to display shortcut menu.</p> <p>Command:</p> <p>Command:</p> <p>Command: _dim</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:</p> <p>Specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:</p>
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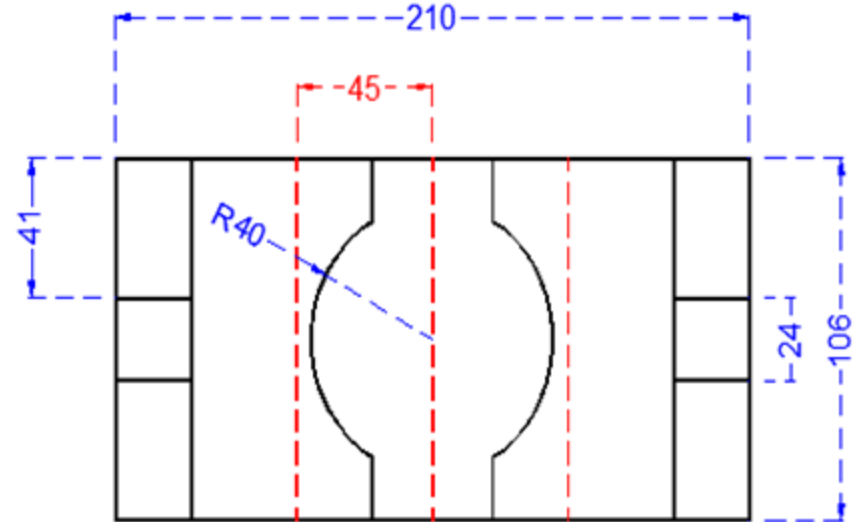
<p>[Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:</p> <p>Specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:</p> <p>Specify second extension line origin or [Undo]:</p> <p>Specify dimension line location or second line for angle [Mtext/Text/text angle/Undo]:</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:</p> <p>Command:</p> <p>Press ESC or ENTER to exit, or right-click to display shortcut menu.</p> <p>Command: REC</p> <p>RECTANG</p> <p>Specify first corner point or [Chamfer/Elevation/Fillet/Thickness/Width]:</p> <p>Specify other corner point or [Area/Dimensions/Rotation]: d</p> <p>Specify length for rectangles <130.0000>: 30</p> <p>Specify width for rectangles <10.0000>: 40</p> <p>Specify other corner point or [Area/Dimensions/Rotation]:</p> <p>Specify other corner point or [Area/Dimensions/Rotation]:</p> <p>Command: *Cancel*</p> <p>Command: EXPLODE</p> <p>Select objects: 1 found</p> <p>Select objects: 1 found, 2 total</p> <p>Specify next point or [Undo]: 7</p> <p>Specify next point or [Undo]:</p> <p>Specify next point or [Close/Undo]: *Cancel*</p> <p>Command: OFFSET</p> <p>Current settings: Erase source=No Layer=Source OFFSETGAPTYPE=0</p> <p>Specify offset distance or [Through/Erase/Layer] <20.0000>: 14</p>	<p>Command:</p> <p>Command: *Cancel*</p> <p>Command: Specify opposite corner or [Fence/WPolygon/CPolygon]: *Cancel*</p> <p>Command: OFFSET</p> <p>Current settings: Erase source=No Layer=Source OFFSETGAPTYPE=0</p> <p>Specify offset distance or [Through/Erase/Layer] <20.0000>:</p> <p>Select object to offset or [Exit/Undo] <Exit>:</p> <p>Cannot offset that object.</p> <p>Specify point on side to offset or [Exit/Multiple/Undo] <Exit>:</p> <p>Select object to offset or [Exit/Undo] <Exit>:</p> <p>Cannot offset that object.</p> <p>>>Press ESC or ENTER to exit, or right-click to display shortcut menu.</p> <p>Cannot offset that object.</p> <p>Resuming OFFSET command.</p> <p>Select object to offset or [Exit/Undo] <Exit>: *Cancel*</p> <p>Command: L</p> <p>LINE</p> <p>Specify first point:</p> <p>Command:</p> <p>Command:</p> <p>Command:</p> <p>Command:</p> <p>Command: _dim</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:</p> <p>Specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:</p> <p>Specify second extension line origin or [Undo]:</p> <p>Specify dimension line location or second line for angle [Mtext/Text/text angle/Undo]:</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:</p> <p>Specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:</p> <p>Specify second extension line origin or [Undo]:</p>	<p>Specify second extension line origin or [Undo]:</p> <p>Specify second extension line origin or [Undo]:</p> <p>Specify dimension line location or second line for angle [Mtext/Text/text angle/Undo]:</p> <p>Specify dimension line location or second line for angle [Mtext/Text/text angle/Undo]:</p> <p>Command:</p> <p>TRIM</p> <p>Current settings: Projection=View, Edge=None, Mode=Quick</p> <p>Select object to trim or shift-select to extend or [cutting edges/Crossing/mode/Project/erase]:</p> <p>Select object to trim or shift-select to extend or [cutting edges/Crossing/mode/Project/erase/Undo]: *Cancel*</p> <p>Command:</p> <p>Command: _erase 1 found</p> <p>Command: OFFSET</p> <p>Current settings: Erase source=No Layer=Source OFFSETGAPTYPE=0</p> <p>Specify offset distance or [Through/Erase/Layer] <14.0000>: 7</p> <p>Select object to offset or [Exit/Undo] <Exit>:</p> <p>Specify point on side to offset or [Exit/Multiple/Undo] <Exit>:</p> <p>Select object to offset or [Exit/Undo] <Exit>: *Cancel*</p> <p>Command:</p> <p>Command:</p> <p>Command: _dim</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:dst</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:</p> <p>Select objects or specify first extension line origin or</p>
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<p>Select object to offset or [Exit/Undo] <Exit>: Specify point on side to offset or [Exit/Multiple/Undo] <Exit>: Select object to offset or [Exit/Undo] <Exit>: *Cancel* Automatic save to C:\Users\fahim\AppData\Local\Temp\Lab 08_1_11485_d0d33adf.sv\$... Command: Command: TR Command: DST DIMSTYLE Command: Command: Command: _dim Select objects or specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]: Specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]: Specify second extension line origin or [Undo]: Specify dimension line location or second line for angle [Mtext/Text/text angle/Undo]: Select objects or specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]: Specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]: Specify second extension line origin or [Undo]: Specify dimension line location or second line for angle [Mtext/Text/text angle/Undo]: Select objects or specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]: Specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]: Command:</p>	<p>Specify dimension line location or second line for angle [Mtext/Text/text angle/Undo]: Select objects or specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]: Specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]: Specify second extension line origin or [Undo]: Specify dimension line location or second line for angle [Mtext/Text/text angle/Undo]: Select objects or specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]: Specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]: Specify second extension line origin or [Undo]: Specify dimension line location or second line for angle Select objects or specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]: >>Press ESC or ENTER to exit, or right-click to display shortcut menu. Resuming DIM command.</p>	<p>[Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]: Command: *Cancel* Command: *Cancel* Command: >>Press ESC or ENTER to exit, or right-click to display shortcut menu. Resuming DIM command. Command: Command: Specify second extension line origin or [Undo]: Command: Press ESC or ENTER to exit, or right-click to display shortcut menu. Command: DST DIMSTYLE Command: Command: _ai_selall Selecting objects...done. Command: *Cancel* Command: Command: Command: PE PEDIT Select polyline or [Multiple]: Select polyline or [Multiple]: m Select objects: Specify opposite corner: 12 found Select objects: Convert Lines, Arcs and Splines to polylines [Yes/No]? <Y> Enter an option [Close/Open/Join/Width/Fit/Spline/Decurve/Ltype gen/Reverse/Undo]: w Specify new width for all segments: .5 Enter an option [Close/Open/Join/Width/Fit/Spline/Decurve/Ltype gen/Reverse/Undo]: *Cancel* Command: Press ESC or ENTER to exit, or right-click to display shortcut menu.</p>
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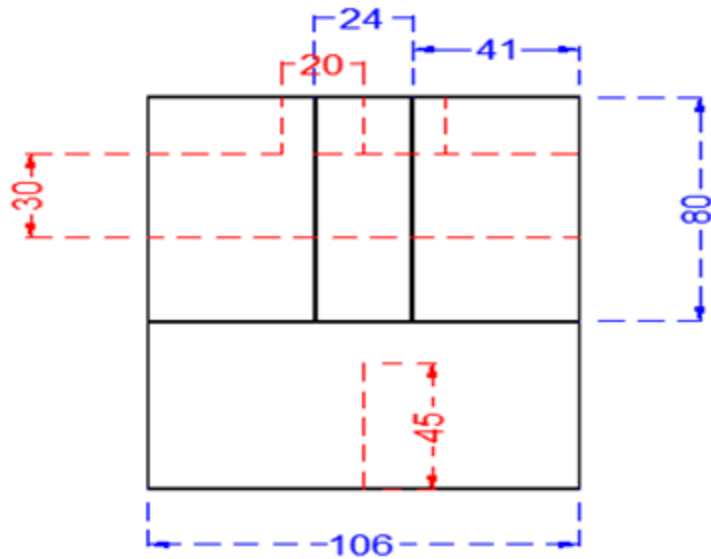
TASK 2



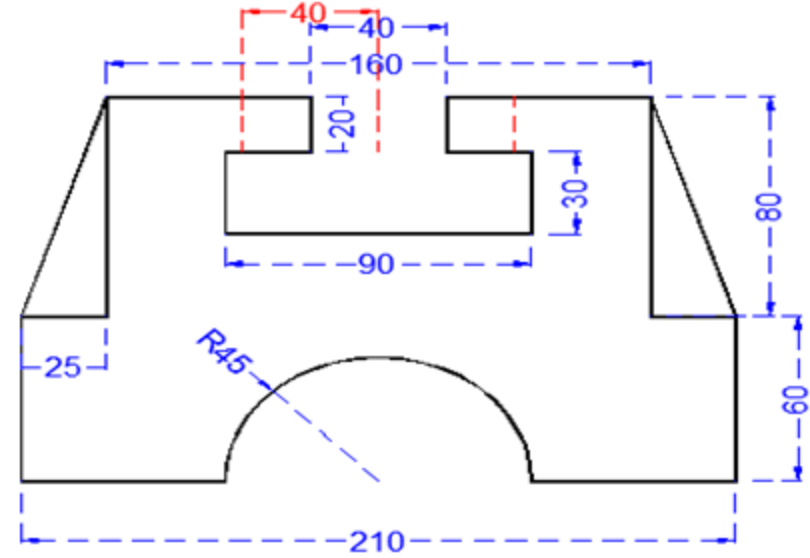
Top view



Side View



Front View



TASK 2 COMMANDS

Command: TR
TRIM

Current settings: Projection=View, Edge=None, Mode=Quick

Select object to trim or shift-select to extend or [cuTting edges/Crossing/mOde/Project/eRase]:

Select object to trim or shift-select to extend or [cuTting edges/Crossing/mOde/Project/eRase/Undo]:

Select object to trim or shift-select to extend or [cuTting edges/Crossing/mOde/Project/eRase/Undo]:

Select object to trim or shift-select to extend or [cuTting edges/Crossing/mOde/Project/eRase/Undo]:

Select object to trim or shift-select to extend or [cuTting edges/Crossing/mOde/Project/eRase/Undo]:

Select object to trim or shift-select to extend or [cuTting edges/Crossing/mOde/Project/eRase/Undo]:

Select object to trim or shift-select to extend or [cuTting edges/Crossing/mOde/Project/eRase/Undo]:

Cancel

Command:

Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command:

Command: m

MOVE 1 found

Specify base point or [Displacement]

<Displacement>:

Specify second point or <use first point as displacement>:

Specify second point or <use first point as displacement>:

Command: *Cancel*

Command:

Command: o

OFFSET

Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command:

Command:

Command:

Command:

Command: l

LINE

Specify first point:

Specify next point or [Undo]: 210

Specify next point or [Undo]: 106

Specify next point or [Close/Undo]: 210

Specify next point or [Close/Undo]:

Specify next point or [Close/Undo]: *Cancel*

Command: o

OFFSET

Current settings: Erase source=No Layer=Source OFFSETGAPTYPE=0

Specify offset distance or [Through/Erase/Layer]

<53.0000>: 25

Select object to offset or [Exit/Undo] <Exit>:

Specify point on side to offset or [Exit/Multiple/Undo]

<Exit>:

Select object to offset or [Exit/Undo] <Exit>:

Specify point on side to offset or [Exit/Multiple/Undo]

<Exit>:

Select object to offset or [Exit/Undo] <Exit>: *Cancel*

Automatic save to

C:\Users\fahim\AppData\Local\Temp\Task_2_Lab_08_1_18905_f62eb1a0.sv\$...

Command:

Command: l

Specify first point:

Specify next point or [Undo]:

Specify next point or [Undo]: *Cancel*

[

[cuTting edges/Crossing/mOde/Project/eRase/Undo]:

Select object to trim or shift-select to extend or [cuTting edges/Crossing/mOde/Project/eRase/Undo]:

Select object to trim or shift-select to extend or [cuTting edges/Crossing/mOde/Project/eRase/Undo]:

Current settings: Erase source=No Layer=Source
 OFFSETGAPTYPE=0
 Specify offset distance or [Through/Erase/Layer]
 <25.0000>: 20
 Select object to offset or [Exit/Undo] <Exit>:
 Specify point on side to offset or
 [Exit/Multiple/Undo] <Exit>:
 Select object to offset or [Exit/Undo] <Exit>:
 Specify point on side to offset or
 [Exit/Multiple/Undo] <Exit>:
 Select object to offset or [Exit/Undo] <Exit>:
 Cancel
 Command:
 Command:
 Command: _circle
 Specify center point for circle or [3P/2P/Ttr (tan
 tan radius)]: *Cancel*
 Command:
 Command:
 Command: _circle
 Specify center point for circle or [3P/2P/Ttr (tan
 tan radius)]:
 Specify radius of circle or [Diameter] <45.0000>:
 40
 Command: *Cancel*
 Command: TR
 TRIM
 Current settings: Projection=View, Edge=None,
 Mode=Quick
 Select object to trim or shift-select to extend or
 [cuTting edges/Crossing/mOde/Project/eRase]:
 Select object to trim or shift-select to extend or
 [cuTting
 edges/Crossing/mOde/Project/eRase/Undo]:
 Select object to trim or shift-select to extend or
 [cuTting
 edges/Crossing/mOde/Project/eRase/Undo]:
 Select object to trim or shift-select to extend or
 cuTting
 edges/Crossing/mOde/Project/eRase/Undo]:
 Select object to trim or shift-select to extend or
 LINE
 Specify first point:

Select object to trim or shift-select to extend or
 [cuTting edges/Crossing/mOde/Project/eRase/Undo]:
 Select object to trim or shift-select to extend or
 [cuTting edges/Crossing/mOde/Project/eRase/Undo]:
 Select object to trim or shift-select to extend or
 [cuTting edges/Crossing/mOde/Project/eRase/Undo]:
 Cancel
 Command: o
 OFFSET
 Current settings: Erase source=No Layer=Source
 OFFSETGAPTYPE=0
 Specify offset distance or [Through/Erase/Layer]
 <20.0000>: 45
 Select object to offset or [Exit/Undo] <Exit>: *Cancel*
 Command: EXP
 EXPORT
 Enter file name (extension defines export type)
 <E:\Semester 4\Engineering Drawing\Lab
 08\Task_2_Lab_08.dwf>: *Cancel*
 Command: EXPLODE
 Select objects: 1 found
 1 was not able to be exploded.
 Select objects: 1 found, 0 total
 1 was not able to be exploded.
 Select objects: 1 found, 0 total
 1 was not able to be exploded.
 Select objects: 1 found, 0 total
 1 was not able to be exploded.
 Select objects: 1 found, 0 total
 1 was not able to be exploded.
 Select objects:
 None found.
 Command: l
 Specify next point or [Undo]:
 Specify next point or [Close/Undo]: u
 Specify next point or [Undo]:
 Specify next point or [Close/Undo]: *Cancel*
 Command: o
 OFFSET
 Current settings: Erase source=No Layer=Source
 OFFSETGAPTYPE=0
 Specify offset distance or [Through/Erase/Layer]
 <24.0000>: 45

Specify next point or [Undo]: 45
Specify next point or [Undo]:
Specify next point or [Close/Undo]: *Cancel*
Command: LINE
Specify first point:
Specify next point or [Undo]: 41
Specify next point or [Undo]:
Specify next point or [Close/Undo]: *Cancel*
Command: o
OFFSET
Current settings: Erase source=No Layer=Source
OFFSETGAPTYPE=0
Specify offset distance or [Through/Erase/Layer]
<45.0000>: 24
Select object to offset or [Exit/Undo] <Exit>:
Specify point on side to offset or
[Exit/Multiple/Undo] <Exit>:
Select object to offset or [Exit/Undo] <Exit>:
Select object to offset or [Exit/Undo] <Exit>:
Specify point on side to offset or
[Exit/Multiple/Undo] <Exit>:
Select object to offset or [Exit/Undo] <Exit>:
Cancel
Command:
Command: _erase 1 found
Command:
Command: _erase 1 found
Command:
Command:
Command:
Command:
Command: l
LINE
Specify first point:
Specify next point or [Undo]:
Command:
Command: _dim
Select objects or specify first extension line origin
or
[Angular/Baseline/Continue/Ordinate/aliGn/Distri
bute/Layer/Undo]:

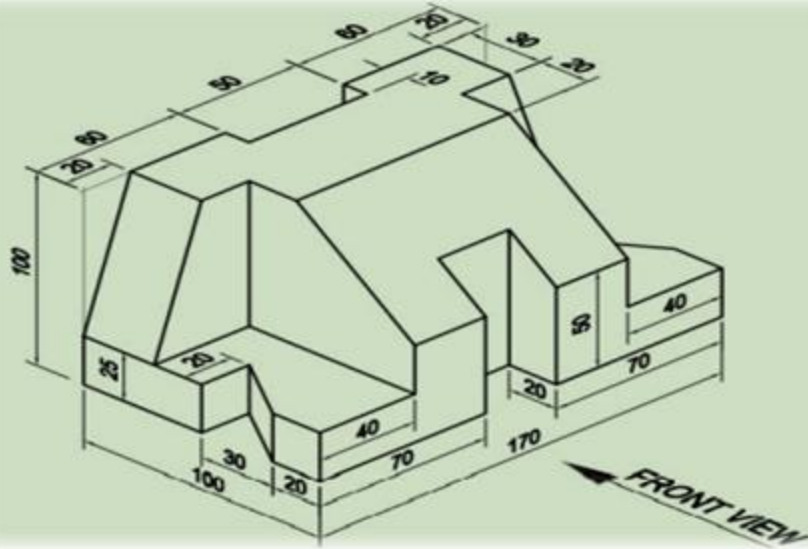
Select object to offset or [Exit/Undo] <Exit>:
Specify point on side to offset or [Exit/Multiple/Undo]
<Exit>:
Select object to offset or [Exit/Undo] <Exit>:
Specify point on side to offset or [Exit/Multiple/Undo]
<Exit>:
Select object to offset or [Exit/Undo] <Exit>: *Cancel*
Command: tr
TRIM
Current settings: Projection=View, Edge=None,
Mode=Quick
Select object to trim or shift-select to extend or
[cutting edges/Crossing/mOde/Project/eRase]:
Select object to trim or shift-select to extend or
[cutting edges/Crossing/mOde/Project/eRase/Undo]:
Cancel
Command: EX
EXTEND
Current settings: Projection=View, Edge=None,
Mode=Quick
Select object to extend or shift-select to trim or
[Boundary edges/Crossing/mOde/Project]:
Select object to extend or shift-select to trim or
[Boundary edges/Crossing/mOde/Project/Undo]:
Cancel
Command:
Specify dimension line location or second line for angle
[Mtext/Text/text aNgle/Undo]:
Select objects or specify first extension line origin or
[Angular/Baseline/Continue/Ordinate/aliGn/Distribute/La
yer/Undo]:
Select objects or specify first extension line origin or
[Angular/Baseline/Continue/Ordinate/aliGn/Distribute/La
yer/Undo]:
Select objects or specify first extension line origin or
[Angular/Baseline/Continue/Ordinate/aliGn/Distribute/La
yer/Undo]:
Select objects or specify first
Select objects or specify first extension line origin or
[Angular/Baseline/Continue/Ordinate/aliGn/Distribute/La
yer/Undo]:

<p>Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/ Distribute/Layer/Undo]:</p> <p>Specify second extension line origin or [Undo]:</p> <p>extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/ Distribute/Layer/Undo]:</p> <p>Command: *Cancel*</p> <p>Command: _u DIM GROUP</p> <p>Command:</p> <p>Command:</p> <p>Command: _dim</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/ Distribute/Layer/Undo]:</p> <p>Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/ Distribute/Layer/Undo]:</p> <p>Specify second extension line origin or [Undo]:</p> <p>Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/ Distribute/Layer/Undo]:</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/ Distribute/Layer/Undo]:</p> <p>Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/ Distribute/Layer/Undo]:</p> <p>Specify second extension line origin or [Undo]:</p> <p>Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/ Distribute/Layer/Undo]:</p> <p>Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/ Distribute/Layer/Undo]:</p>	<p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/ Distribute/ Layer/Undo]:</p> <p>Command:</p> <p>Command: _dim</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/ Distribute/ Layer/Undo]:</p> <p>Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/ Distribute/ Layer/Undo]:</p> <p>Specify second extension line origin or [Undo]:</p> <p>Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/ Distribute/ Layer/Undo]:</p> <p>Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/ Distribute/ Layer/Undo]:</p> <p>Specify second extension line origin or [Undo]:</p> <p>Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/ Distribute/ Layer/Undo]:</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/ Distribute/ Layer/Undo]:</p> <p>Command:</p> <p>Command: _erase 1 found</p> <p>Command:</p> <p>Command: _erase 1 found</p> <p>Dimension extension disassociated.</p> <p>Command:</p> <p>Command: _erase 1 found</p> <p>Dimension disassociated.</p> <p>Command: *Cancel*</p> <p>Command: !*Cancel*</p> <p>Command:</p> <p>Command:</p> <p>Command:</p> <p>Command:</p>
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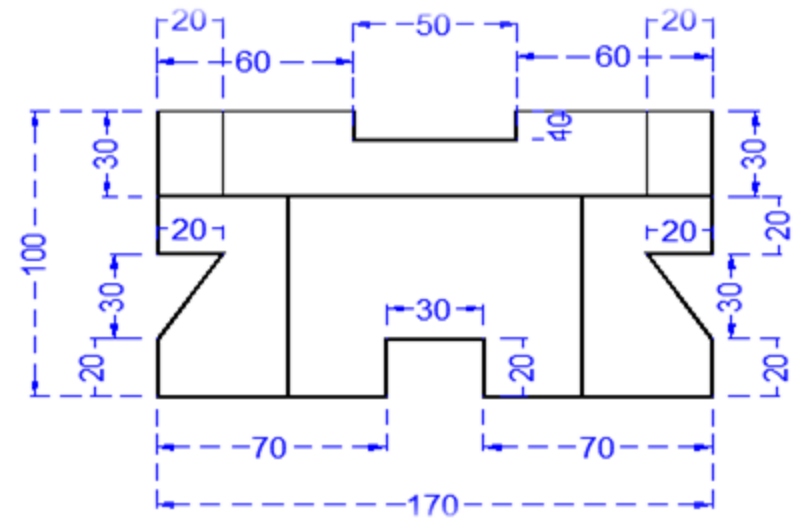
Specify second extension line origin or [Undo]:
Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:
Select objects or specify first extension line origin or
[Angular/Baseline/Continue/Ordinate/aliGn/Distribute/Layer/Undo]:
Specify first extension line origin or
[Angular/Baseline/Continue/Ordinate/aliGn/Distribute/Layer/Undo]:
Specify second extension line origin or [Undo]:
Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:
Select objects or specify first extension line origin or
[Angular/Baseline/Continue/Ordinate/aliGn/Distribute/Layer/Undo]:
Select objects or specify first extension line origin or
[Angular/Baseline/Continue/Ordinate/aliGn/Distribute/Layer/Undo]:
Select object to offset or [Exit/Undo] <Exit>:
Cannot offset that object.
Cannot offset that object.
Select object to offset or [Exit/Undo] <Exit>:
Cancel
Command:
Command: _erase 1 found
Command:
Command: _erase 1 found
Command:
Command: _dim
Select objects or specify first extension line origin or
[Angular/Baseline/Continue/Ordinate/aliGn/Distribute/Layer/Undo]:
Specify first extension line origin or
[Angular/Baseline/Continue/Ordinate/aliGn/Distribute/Layer/Undo]:
Specify second extension line origin or [Undo]:
Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:

Command: l
LINE
Specify first point:
Specify next point or [Undo]: 411
Specify next point or [Undo]: u
Specify next point or [Undo]: Zero length line created at (5059.0088, 3073.0221, 0.0000)
Specify next point or [Undo]: 41
Specify next point or [Close/Undo]:
Specify next point or [Close/Undo]: *Cancel*
Command: o
OFFSET
Current settings: Erase source=No Layer=Source
OFFSETGAPTYPE=0
Specify offset distance or [Through/Erase/Layer]
<45.0000>: 24
Select object to offset or [Exit/Undo] <Exit>:
Specify point on side to offset or [Exit/Multiple/Undo]
<Exit>:
Select objects or specify first extension line origin or
[Angular/Baseline/Continue/Ordinate/aliGn/Distribute/Layer/Undo]:
Select objects or specify first extension line origin or
[Angular/Baseline/Continue/Ordinate/aliGn/Distribute/Layer/Undo]:Command: _dimradius
Select arc or circle:
Dimension text = 40
Specify dimension line location or [Mtext/Text/Angle]:
Command:
Command:
** STRETCH **
Specify stretch point or [Base point/Copy/Undo/eXit]:
<Polar on>
Dimension disassociated.
Command: Specify opposite corner or
[Fence/WPolygon/CPolygon]:
Command: Specify opposite corner or
[Fence/WPolygon/CPolygon]:
Command: *Cancel*
Command:
Command:
Command: _qsave

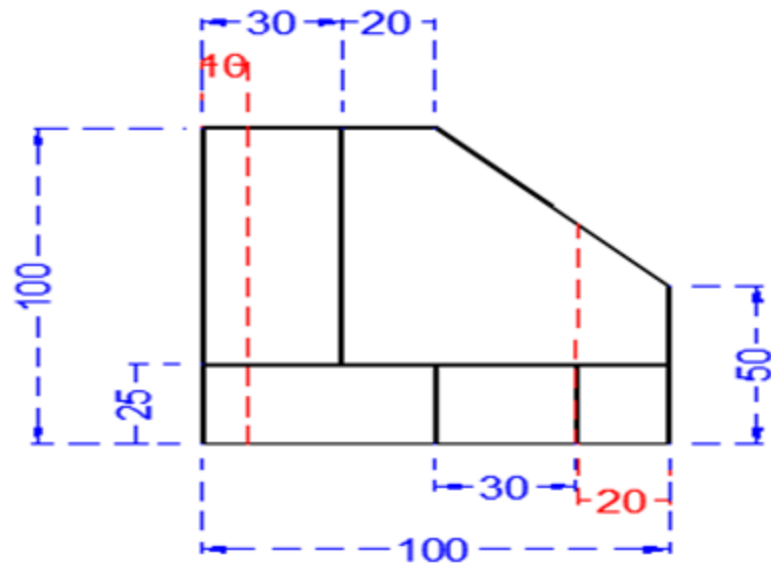
TASK 3



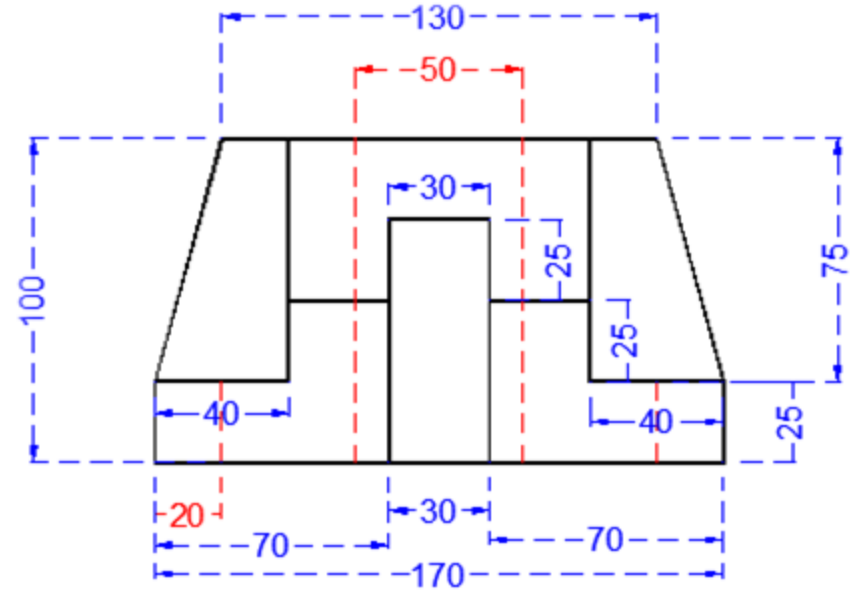
Top View



Side view



Front View



TASK 3 Commands

Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Specify second extension line origin or [Undo]:

Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:

Non-associative dimension created.

Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Specify second extension line origin or [Undo]:

Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:

Non-associative dimension created.

Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Specify second extension line origin or [Undo]:

Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:

Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Specify second extension line origin or [Undo]:

Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:

Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Specify second extension line origin or [Undo]:

Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:

Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Specify second extension line origin or [Undo]:

Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:

Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Specify second extension line origin or [Undo]:

Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:

Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Command:

Command:

**** STRETCH ****

Specify stretch point or [Base point/Copy/Undo/eXit]:

Command: Specify opposite corner or [Fence/WPolygon/CPolygon]: *Cancel*

Command: *Cancel*

Command:

Command: _erase 1 found

Command:

Command:

Command: _dim

Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Non-associative dimension created.

Specify dimension line location or [Mtext/Text/Angle/Horizontal/Vertical/Rotated]:

Dimension text = 10

Dimension text = 10

Command:

Select objects or specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:

Specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:

Specify dimension line location or second line for angle [Mtext/Text/text angle/Undo]:

Select objects or specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:

Specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:

Specify second extension line origin or [Undo]:

Specify dimension line location or second line for angle [Mtext/Text/text angle/Undo]: <Polar on>

Non-associative dimension created.

Select objects or specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:

Specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:

Specify first extension line origin or [Angular/Baseline/Continue/Ordinate/align/Distribute/Layer/Undo]:

Specify second extension line origin or [Undo]:

Command:

Command: _erase 1 found

Command:

Command:

Command: _dimlinear

Specify first extension line origin or <select object>:

Specify second extension line origin:

Command: l

Specify next point or [Undo]: 100

Specify next point or [Close/Undo]: 100

Specify next point or [Close/Undo]:

Specify next point or [Close/Undo]: *Cancel*

Command: o

OFFSET

Command:

Command:

Command: *Cancel*

Command:

Command: m

MOVE 1 found

Specify base point or [Displacement]

<Displacement>:

Specify second point or <use first point as displacement>:

Specify second point or <use first point as displacement>:

Command: *Cancel*

Command:

Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: Specify opposite corner or [Fence/WPolygon/CPolygon]: *Cancel*

Command:

Press ESC or ENTER to exit, or right-click to display shortcut menu.

Command: l

LINE

Specify first point:

Specify next point or [Undo]: <Ortho on> *Cancel*

Command:

Command:

Command:

Command:

LINE

Specify first point:

Specify next point or [Undo]: 100

Select object to offset or [Exit/Undo] <Exit>:

Specify point on side to offset or [Exit/Multiple/Undo] <Exit>:

Select object to offset or [Exit/Undo] <Exit>: *Cancel*

Command: l

LINE

Specify first point:

Specify next point or [Undo]:

Specify next point or [Undo]: *Cancel*

Command: TR

TRIM

Current settings: Erase source=No Layer=Source
 OFFSETGAPTYPE=0
 Specify offset distance or [Through/Erase/Layer]
 <20.0000>: 50
 Select object to offset or [Exit/Undo] <Exit>:
 Specify point on side to offset or [Exit/Multiple/Undo]
 <Exit>:
 Select object to offset or [Exit/Undo] <Exit>: *Cancel*
 Command:
 Automatic save to
 C:\Users\fahim\AppData\Local\Temp\Task_2_Lab_0
 8_1_6820_fdd9c9a1.sv\$...
 Command:
 Command: _erase 1 found
 Command: O
 OFFSET
 Current settings: Erase source=No Layer=Source
 OFFSETGAPTYPE=0
 Specify offset distance or [Through/Erase/Layer]
 <50.0000>: 25
 Select object to offset or [Exit/Undo] <Exit>:
 Specify point on side to offset or [Exit/Multiple/Undo]
 <Exit>:
 Select object to offset or [Exit/Undo] <Exit>:
 Specify point on side to offset or [Exit/Multiple/Undo]
 <Exit>:
 Select object to offset or [Exit/Undo] <Exit>:
 Specify point on side to offset or [Exit/Multiple/Undo]
 <Exit>:
 Select object to offset or [Exit/Undo] <Exit>: *Cancel*
 Command: OFFSET
 Current settings: Erase source=No Layer=Source
 OFFSETGAPTYPE=0
 Specify offset distance or [Through/Erase/Layer]
 <25.0000>:
 [cuTting edges/Crossing/mOde/Project/eRase/Undo]:
 Select object to trim or shift-select to extend or
 [cuTting
 edges/Crossing/mOde/Project/eRase/Undo]:
 Cancel
 Command: o
 OFFSET

Current settings: Projection=View, Edge=None,
 Mode=Quick
 Select object to trim or shift-select to extend or
 [cuTting edges/Crossing/mOde/Project/eRase]:
 Select object to trim or shift-select to extend or
 [cuTting
 edges/Crossing/mOde/Project/eRase/Undo]:
 Specify next fence point or [Undo]:
 Specify next fence point or [Undo]:
 Select object to trim or shift-select to extend or
 [cuTting
 edges/Crossing/mOde/Project/eRase/Undo]:
 Select object to trim or shift-select to extend or
 [cuTting
 edges/Crossing/mOde/Project/eRase/Undo]:
 Select object to trim or shift-select to extend or
 [cuTting
 edges/Crossing/mOde/Project/eRase/Undo]:
 Select object to trim or shift-select to extend or
 [cuTting
 edges/Crossing/mOde/Project/eRase/Undo]:
 Select object to trim or shift-select to extend or
 [cuTting
 edges/Crossing/mOde/Project/eRase/Undo]:
 Select object to trim or shift-select to extend or
 [cuTting
 edges/Crossing/mOde/Project/eRase/Undo]:
 Cancel
 Command:
 Command: _erase 1 found
 Command:
 Command: _erase 1 found
 Command: EX
 EXTEND
 Current settings: Projection=View, Edge=None,
 Mode=Quick
 Select object to extend or shift-select to trim or
 [Boundary edges/Crossing/mOde/Project]:

Current settings: Erase source=No Layer=Source
 OFFSETGAPTYPE=0
 Specify offset distance or [Through/Erase/Layer]
 <25.0000>: 50
 Select object to offset or [Exit/Undo] <Exit>: *Cancel*
 Command: O
 OFFSET
 Current settings: Erase source=No Layer=Source
 OFFSETGAPTYPE=0
 Specify offset distance or [Through/Erase/Layer]
 <50.0000>: 20
 Select object to offset or [Exit/Undo] <Exit>:
 Specify point on side to offset or [Exit/Multiple/Undo]
 <Exit>:
 Select object to offset or [Exit/Undo] <Exit>: *Cancel*
 Command: OFFSET
 Current settings: Erase source=No Layer=Source
 OFFSETGAPTYPE=0
 Specify offset distance or [Through/Erase/Layer]
 <20.0000>: 30
 Select object to offset or [Exit/Undo] <Exit>:
 Specify point on side to offset or [Exit/Multiple/Undo]
 <Exit>:
 Select object to offset or [Exit/Undo] <Exit>: *Cancel*
 Command: tr
 TRIM
 Current settings: Projection=View, Edge=None,
 Mode=Quick
 Select object to trim or shift-select to extend or

 Select object to trim or shift-select to extend or
 [cuTting
 edges/Crossing/mOde/Project/ eRase/Undo]:
 Specify next fence point or [Undo]:
 Specify next fence point or [Undo]:
 Specify next fence point or [Undo]:
 Specify next fence point or [Undo]:
 Select object to trim or shift-select to extend or
 [cuTting
 edges/Crossing/mOde/Project/ eRase/Undo]:
 Cancel
 Command:
 1

Select object to extend or shift-select to trim or
 [Boundary edges/Crossing/mOde/Project/Undo]:
 1*Cancel*
 Command: o
 OFFSET
 Current settings: Erase source=No Layer=Source
 OFFSETGAPTYPE=0
 Specify offset distance or [Through/Erase/Layer]
 <30.0000>: 30
 Select object to offset or [Exit/Undo] <Exit>:
 Specify point on side to offset or [Exit/Multiple/Undo]
 <Exit>:
 Select object to offset or [Exit/Undo] <Exit>: *Cancel*
 Command: TR
 TRIM
 Current settings: Projection=View, Edge=None,
 Mode=Quick
 Select object to trim or shift-select to extend or
 [cuTting edges/Crossing/mOde/Project/eRase]:
 Command: l
 LINE
 Specify first point:
 Specify next point or [Undo]:
 Specify next point or [Undo]: *Cancel*
 Command: TR
 TRIM
 Current settings: Projection=View, Edge=None,
 Mode=Quick
 Select object to trim or shift-select to extend or
 [cuTting edges/Crossing/mOde/Project/eRase]:
 Select object to trim or shift-select to extend or
 [cuTting
 edges/Crossing/mOde/Project/ eRase/Undo]:
 Cancel
 Command:
 Command:
 Command: _dim
 Select objects or specify first extension line origin or
 [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut
 e/Layer/Undo]:
 Specify first extension line origin or
 [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut
 e/Layer/Undo]:

<p>Command:</p> <p>Command:</p> <p>Command:</p> <p>Command: L</p> <p>LINE</p> <p>Specify first point: 10</p> <p>Specify next point or [Undo]: *Cancel*</p> <p>Command: *Cancel*</p> <p>Command: l</p> <p>LINE</p> <p>Specify first point:</p> <p>Specify next point or [Undo]:</p> <p>Specify next point or [Undo]: *Cancel*</p> <p>Command: u</p> <p>LINE</p> <p>Command: L</p> <p>LINE</p> <p>Specify first point:</p> <p>Specify next point or [Undo]: 10</p> <p>Specify next point or [Undo]:</p> <p>Specify next point or [Close/Undo]: *Cancel*</p> <p>Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:</p> <p>Specify second extension line origin or [Undo]:</p> <p>Specify second extension line origin or [Undo]:</p> <p>Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:</p> <p>Command: DIM</p> <p>Specify second extension line origin or [Undo]:</p> <p>Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:</p> <p>Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:</p> <p>Command: _dim</p>	<p>Specify second extension line origin or [Undo]:</p> <p>Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:</p> <p>Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:</p> <p>Command:</p> <p>Command:</p> <p>Command:</p> <p>Command:</p> <p>Command:</p> <p>Command: _dim</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:</p> <p>Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:</p> <p>Specify second extension line origin or [Undo]:</p> <p>Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:</p> <p>Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:</p> <p>Specify second extension line origin or [Undo]:</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:</p> <p>Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:</p> <p>Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:</p>
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Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Specify second extension line origin or [Undo]:

Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:

Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Specify second extension line origin or [Undo]:

Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:

Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Specify second extension line origin or [Undo]:

Specify dimension line location or second line for angle [Mtext/Text/text aNgle/Undo]:

Specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Specify second extension line origin or [Undo]:

Specify dimension line location or second line for angle

/ Ordinate/ aliGn/ Distribute/ Layer/ Undo]:

Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:u

Select objects or specify first extension line origin or [Angular/Baseline/Continue/ Ordinate/ aliGn/Distribut e/Layer/Undo]:

Command:

Automatic save to

C:\Users\fahim\AppData\Local\Temp\Task_2_Lab_08_1_6820_fdd9c9a1.sv\$...

Command:

Command:

Command:

Command: _qsave

Engineering Drawing Lab 08**Method of Evaluation:** Lab Report and in-lab marking by instructors.**Measured Learning Outcomes****CLO1:** Ability to read basic engineering drawings problems.**CLO3:** Reproduce 2-D and 3-D sketches using AutoCAD by applying engineering drawing principles.

	Excellent (10)	Good (9 to 7)	Satisfactory (6 to 4)	Unsatisfactory (3 to 1)	Poor (0)	Marks Obtained
Assignment (CLO1)	Required document filled-in neatly with meaningful answers to all questions, proper grammar and punctuations with proper conclusion drawn	Required document filled-in neatly with meaningful answers to most questions and proper conclusions drawn with some grammar mistakes	Some correct/meaningful answers and conclusions with some irrelevant ones. Some parts of the document not neat or some grammar mistakes.	Answers not understandable/ not relevant to questions. Conclusions not based on results. Illegible writing with no proper grammar/punctuation	Report/Hand out Not submitted	
Task Completion (CLO3)	All Tasks were completed successfully in the time of the lab	Most of the tasks were completed in the given time of the lab	Some of the tasks were completed in the given lab time	Very few tasks were performed and completed in given lab time	Lab tasks weren't performed at all	
Total						