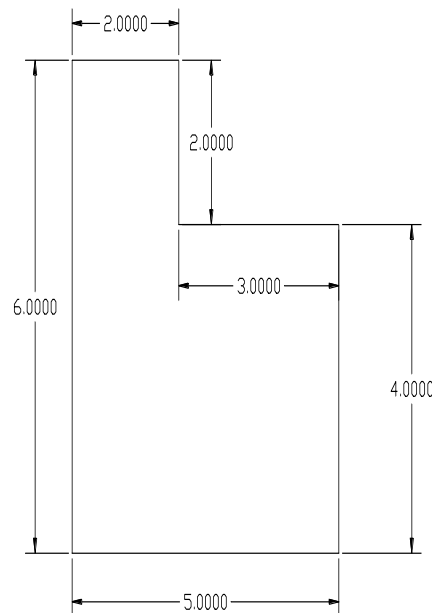


Lab #01

Objective: Understanding the co-ordinate system and implementing it with different Modes.

Exercise #01: Create the given drawing by using:

- Absolute coordinate's entry mode.
- Polar coordinates entry mode.
- Relative coordinate's entry mode.



- **Absolute coordinate's entry mode:**

Commands:

Command: LINE

Specify first point: 5,1.5

Specify next point or [Undo]: 10,1.5

Specify next point or [Undo]: 10,5.5

Specify next point or [Close/Undo]: 7,5.5

Specify next point or [Close/Undo]: 7,7.5

Specify next point or [Close/Undo]: 5,7.5

Specify next point or [Close/Undo]: close

Command: DIMLINEAR

Specify first extension line origin or <select object>: 5,1.5

Specify second extension line origin: 10,1.5

Non-associative dimension created.

Specify dimension line location or

[Mtext/Text/Angle/Horizontal/Vertical/Rotated]:

Dimension text = 5.0000

Command: DIMLINEAR

Specify first extension line origin or <select object>: 10,1.5

Specify second extension line origin: 10,5.5

Non-associative dimension created.

Specify dimension line location or

[Mtext/Text/Angle/Horizontal/Vertical/Rotated]:

Dimension text = 4.0000

Command: DIMLINEAR

Specify first extension line origin or <select object>: 10,5.5

Specify second extension line origin: 7,5.5

Non-associative dimension created.

Specify dimension line location or

[Mtext/Text/Angle/Horizontal/Vertical/Rotated]:

Dimension text = 3.0000

Command: DIMLINEAR

Specify first extension line origin or <select object>: 7,5.5

Specify second extension line origin: 7,7.5

Non-associative dimension created.

Specify dimension line location or

[Mtext/Text/Angle/Horizontal/Vertical/Rotated]:

Dimension text = 2.0000

Command: DIMLINEAR

Specify first extension line origin or <select object>: 7,7.5

Specify second extension line origin: 5,7.5

Non-associative dimension created.

Specify dimension line location or

[Mtext/Text/Angle/Horizontal/Vertical/Rotated]:

Dimension text = 2.0000

Command: DIMLINEAR

Specify first extension line origin or <select object>: 5,7.5

Specify second extension line origin: 5,1.5

Non-associative dimension created.

Specify dimension line location or

[Mtext/Text/Angle/Horizontal/Vertical/Rotated]:

Dimension text = 6.0000

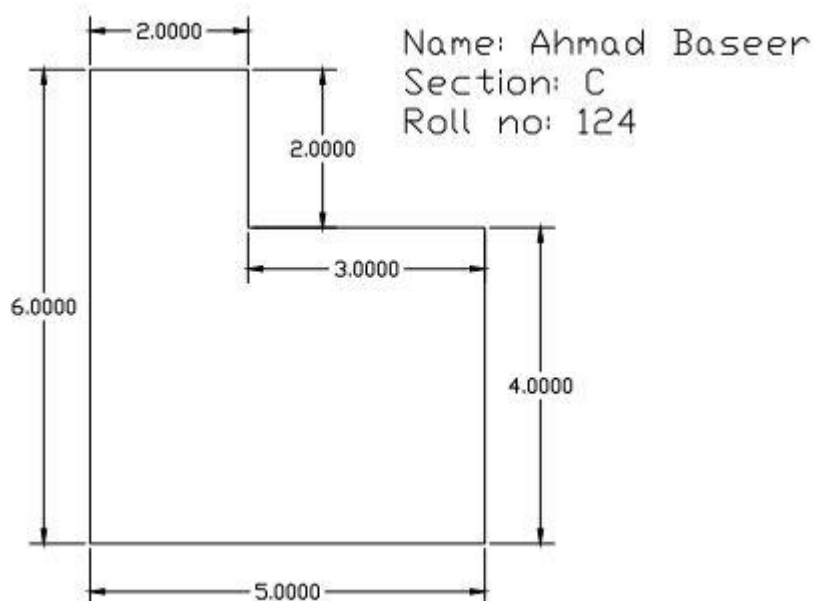
Command: MTEXT

Current text style: "Standard" Text height: 0.2000 Annotative: No

Specify first corner: 9,8

Specify opposite corner or [Height/Justify/Line spacing/Rotation/Style/Width/Columns]: 14.5,6.

Output Drawing:



- **Relative coordinate's entry mode:**

Commands:

command: LINE

Specify first point: 5,0.5

Specify next point or [Undo]: @5,0

Specify next point or [Undo]: @0,4

Specify next point or [Close/Undo]: @-3,0

Specify next point or [Close/Undo]: @0,2

Specify next point or [Close/Undo]: @-2,0

Specify next point or [Close/Undo]: close

Command: DIMLINEAR

Specify first extension line origin or <select object>: 5,0.5

Specify second extension line origin: 10,0.5

Non-associative dimension created.

Specify dimension line location or

[Mtext/Text/Angle/Horizontal/Vertical/Rotated]:

Dimension text = 5.0000

Command: DIMLINEAR

Specify first extension line origin or <select object>: 10,0.5

Specify second extension line origin: 10,4.5

Non-associative dimension created.

Specify dimension line location or

[Mtext/Text/Angle/Horizontal/Vertical/Rotated]:

Dimension text = 4.0000

Command: DIMLINEAR

Specify first extension line origin or <select object>: 10,4.5

Specify second extension line origin: 7,4.5

Non-associative dimension created.

Specify dimension line location or

[Mtext/Text/Angle/Horizontal/Vertical/Rotated]:

Dimension text = 3.0000

Command: DIMLINEAR

Specify first extension line origin or <select object>: 7,4.5

Specify second extension line origin: 7,6.5

Non-associative dimension created.

Specify dimension line location or

[Mtext/Text/Angle/Horizontal/Vertical/Rotated]:

Dimension text = 2.0000

Command: DIMLINEAR

Specify first extension line origin or <select object>: 7,6.5

Specify second extension line origin: 5,6.5

Non-associative dimension created.

Specify dimension line location or

[Mtext/Text/Angle/Horizontal/Vertical/Rotated]:

Dimension text = 2.0000

Command: DIMLINEAR

Specify first extension line origin or <select object>: 5,6.5

Specify second extension line origin: 5,0.5

Non-associative dimension created.

Specify dimension line location or

[Mtext/Text/Angle/Horizontal/Vertical/Rotated]:

Dimension text = 6.0000

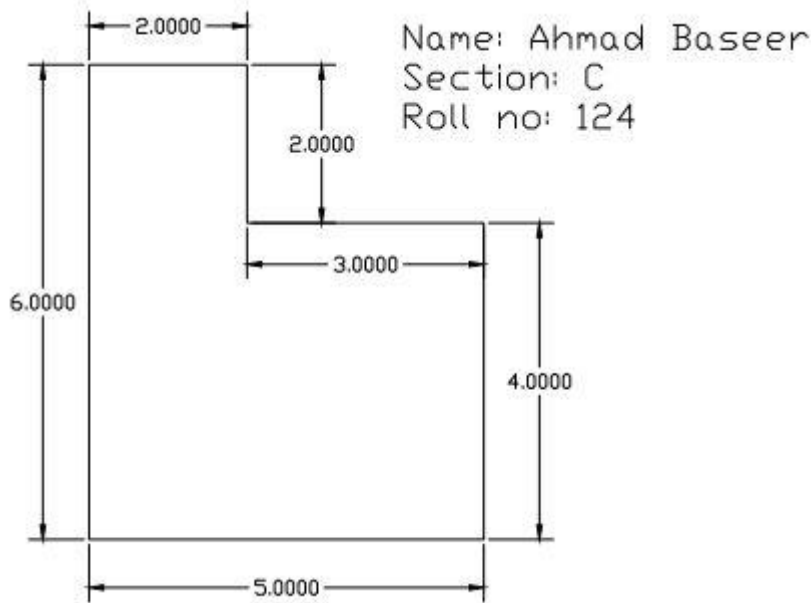
Command: MTEXT

Current text style: "Standard" Text height: 0.2000 Annotative: No

Specify first corner: 9.5,7

Specify opposite corner or [Height/Justify/Line spacing/Rotation/Style/Width/Columns]: 15.5,4.7.

Output drawing:



• Polar coordinate's entry mode:

Commands:

command:LINE

Specify first point: 5,0.5

Specify next point or [Undo]: @5<0

Specify next point or [Undo]: @4<90

Specify next point or [Close/Undo]: @3<180

Specify next point or [Close/Undo]: @2<90

Specify next point or [Close/Undo]: @2<180

Specify next point or [Close/Undo]: @6<270

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

Command: DIM

Select objects or specify first extension line origin or [Angular/Baseline/Continue/Undo]:A

Select arc, circle, line or [Vertex]:

Select line to specify second side of angle:

Select objects or specify first extension line origin or [Angular/Baseline/Continue/Undo]:A

Select arc, circle, line or [Vertex]:

(2)Select line to specify second side of angle:

Select objects or specify first extension line origin or [Angular/Baseline/Continue/Undo]:A

Select arc, circle, line or [Vertex]:

(3)Select line to specify second side of angle:

Select objects or specify first extension line origin or [Angular/Baseline/Continue/Undo]:A

Select arc, circle, line or [Vertex]:

(4)Select line to specify second side of angle:

Command: *Cancel*

Command: DIMLINEAR

Specify first extension line origin or <select object>: 5,0.5

Specify second extension line origin: 10,0.5

Non-associative dimension created.

Specify dimension line location or

[Mtext/Text/Angle/Horizontal/Vertical/Rotated]:

Dimension text = 5.0000

Command: DIMLINEAR

Specify first extension line origin or <select object>: 10,0.5

Specify second extension line origin: 10,4.5
 Non-associative dimension created.
 Specify dimension line location or
 [Mtext/Text/Angle/Horizontal/Vertical/Rotated]:
 Dimension text = 4.0000
 Command: DIMLINEAR
 Specify first extension line origin or <select object>: 10,4.5
 Specify second extension line origin: 7,4.5
 Non-associative dimension created.
 Specify dimension line location or
 [Mtext/Text/Angle/Horizontal/Vertical/Rotated]:
 Dimension text = 3.0000
 Command: DIMLINEAR
 Specify first extension line origin or <select object>: 7,4.5
 Specify second extension line origin: 7,6.5
 Non-associative dimension created.
 Specify dimension line location or
 [Mtext/Text/Angle/Horizontal/Vertical/Rotated]:
 Dimension text = 2.0000
 Command: DIMLINEAR
 Specify first extension line origin or <select object>: 7,6.5
 Specify second extension line origin: 5,6.5
 Non-associative dimension created.
 Specify dimension line location or
 [Mtext/Text/Angle/Horizontal/Vertical/Rotated]:
 Dimension text = 2.0000
 Command: DIMLINEAR
 Specify first extension line origin or <select object>: 5,6.5
 Specify second extension line origin: 5,0.5
 Non-associative dimension created.
 Specify dimension line location or
 [Mtext/Text/Angle/Horizontal/Vertical/Rotated]:
 Dimension text = 6.0000
 Command: MTEXT
 Current text style: "Standard" Text height: 0.2000 Annotative: No
 Specify first corner: 9.5,7.5
 Specify opposite corner or [Height/Justify/Line spacing/Rotation/Style/Width/Columns]: 16,5

Output Drawing:

