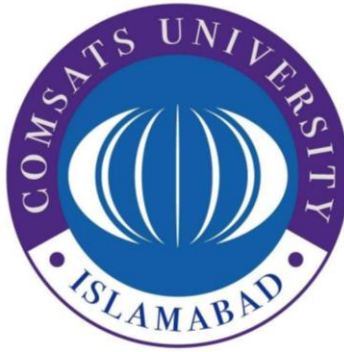


CPE 214 – Computer-Aided Engineering Design



Lab # 5: To describe the modify commands I and practice the drawings using AutoCAD

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OBJECTIVE(S): This lab has been designed to familiarize students with Copy, Offset, Mirror, Array and Rotate commands using AutoCAD.

INTRODUCTION:

MIRROR: “mi” or “MIRROR” is the command to activate mirror command. In this command first and second points are selected for mirror object.

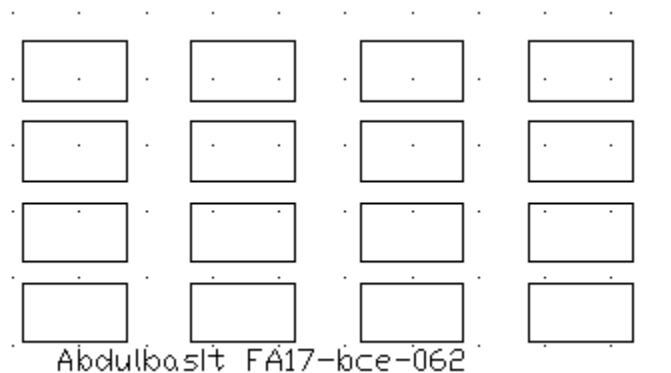
COPY: “co” or “COPY” is the command to copy object. First, we select the object and then give the displacement point.

OFFSET: “o” or “OFFSET” is the command to activate the offset command.

LAB TASKS:

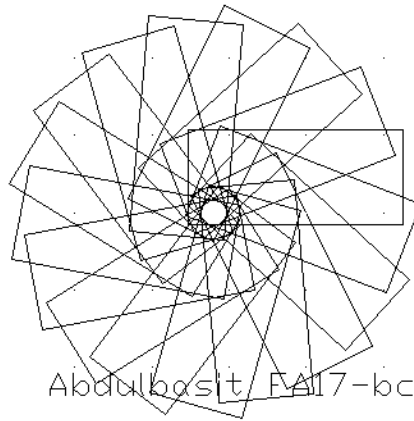
Task 1:

- i. TO CREATE A RECTANGULAR ARRAY:
- ii. I wrote “ar” in the command line to activate array command and a dialogue box was appeared on the screen.
- iii. Chose rectangular array and selected the object to be arrayed.
- iv. In rows and columns boxes, I entered the number of rows and columns required.
- v. An arrayed object was constructed.
- vi. Circuit:



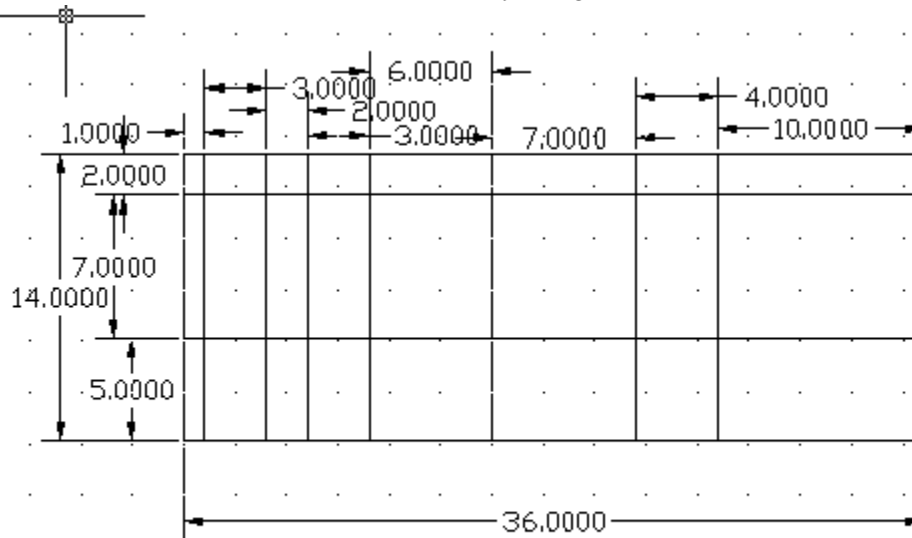
Task 2:

- i. TO CREATE A POLAR ARRAY:
- ii. I wrote “ar” in the command line to activate array command and a dialogue box was appeared on the screen.
- iii. Chose polar array and entered the values of X and Y for the center point of the polar array.
- iv. I entered the total number of items i.e.6. All the six items were plotted in 360 degrees.
- v. Then, I selected the object to be arranged.



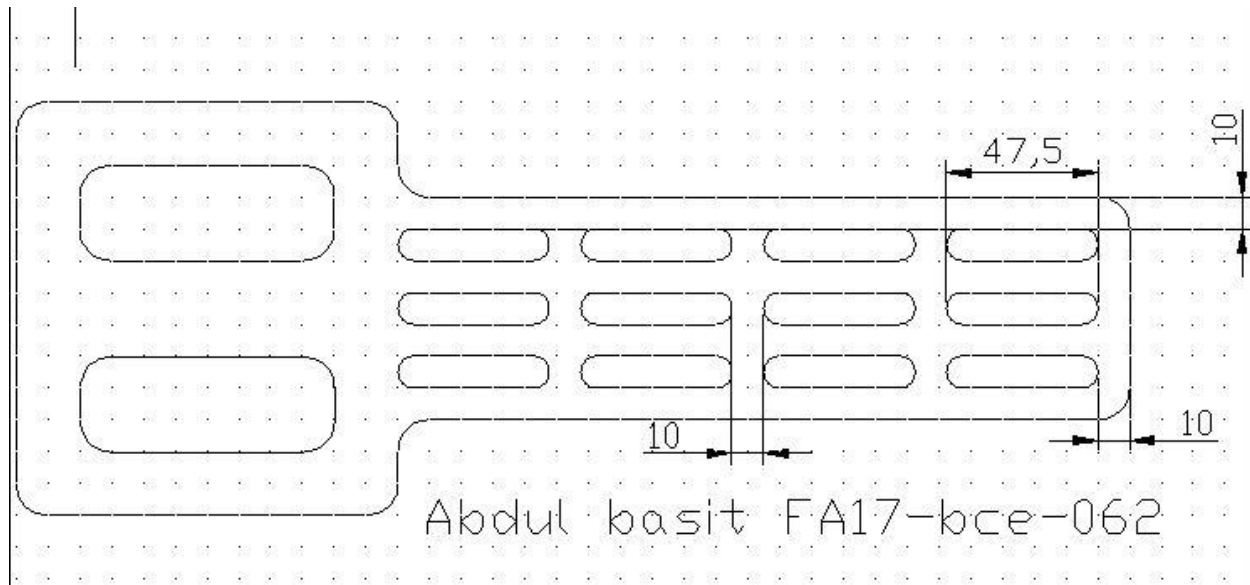
Task 3:

- i. I selected line from the draw menu and constructed a vertical line of 14 units by entering coordinates in the command line.
- ii. I activated offset command by entering "o" in the command line and entered the distance at which I wanted another line to be plotted.
- iii. Selected the object to offset then, specified point on side to offset.
- iv. I repeated the same steps for all vertical lines.
- v. Then, I plotted a horizontal line of 31.6 units by entering coordinated in the command line.
- vi. Again, I activated offset command by entering "o" in the command line and entered the distance at which I wanted the horizontal line to be plotted.
- vii. Selected the object to offset then, specified point on side to offset.
- viii. I repeated the same steps for all horizontal lines.
- ix. Then, I labeled the distance of each block by using linear command.



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Task 4:



CONCLUSION: From this lab, I came to know about copy, offset, mirror, fillet, array and rotate command. I have also learnt how rectangular and polar array can be used in AutoCAD.