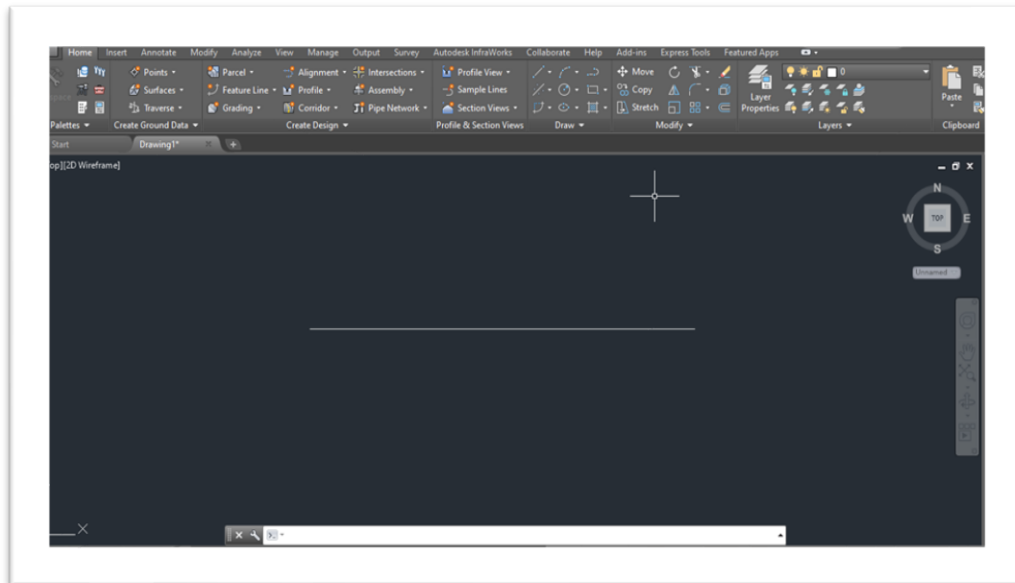


Engineering Drawing and Graphics

LAB # 1 : Basic Commands of AutoCAD

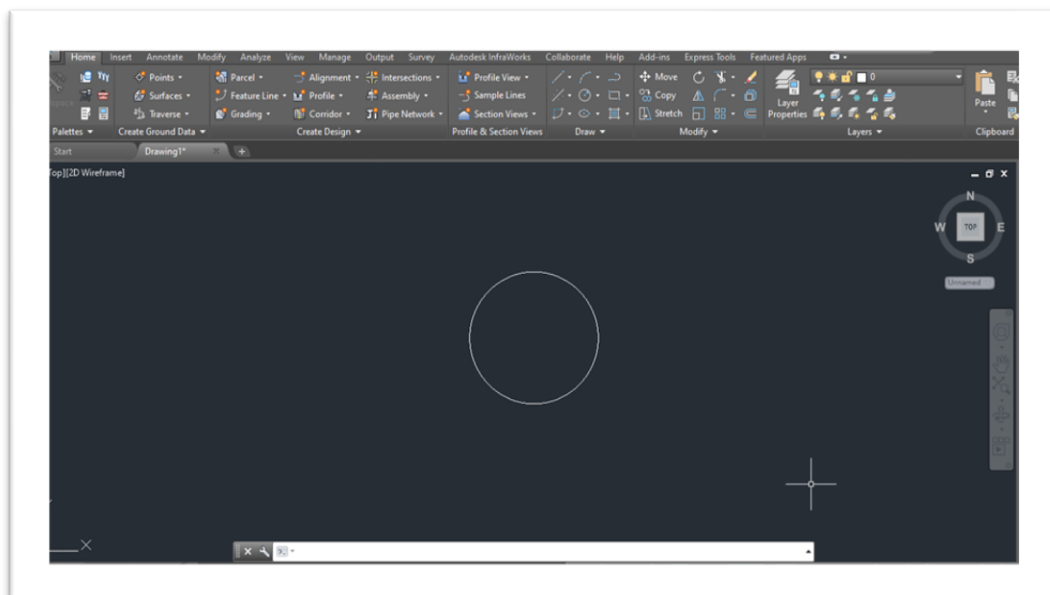
1. Line Command :

*To use line command we will click **L** and press **Enter**. After it we will specify the first and second point and again press **Enter***



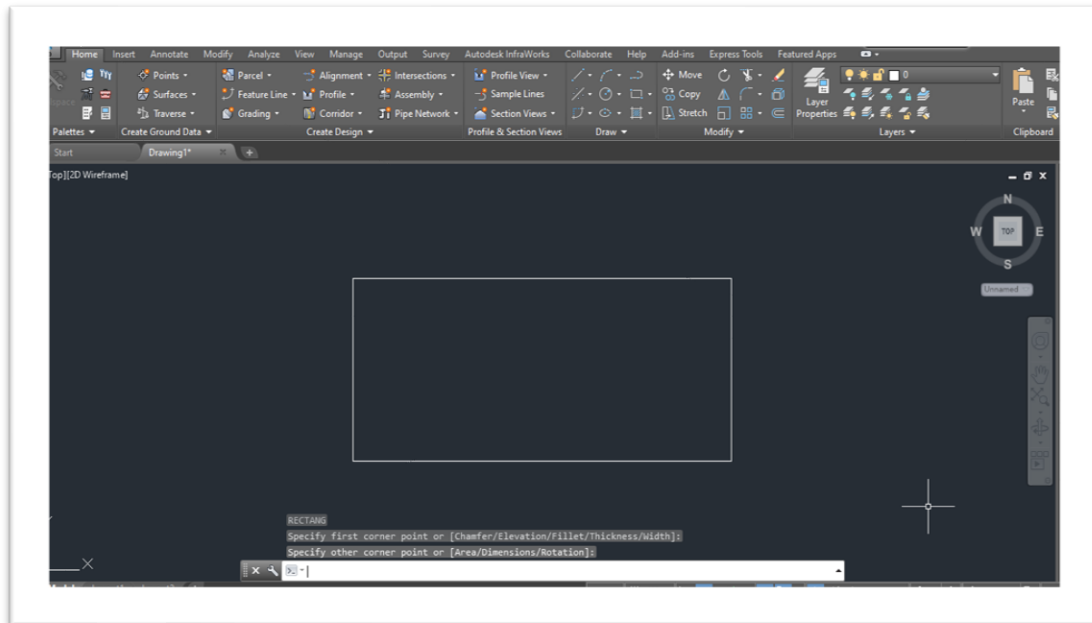
2. Circle Command :

*To use circle command click **C** and press **Enter**. After it specify center point and specify radius then again press **Enter** to draw a circle.*



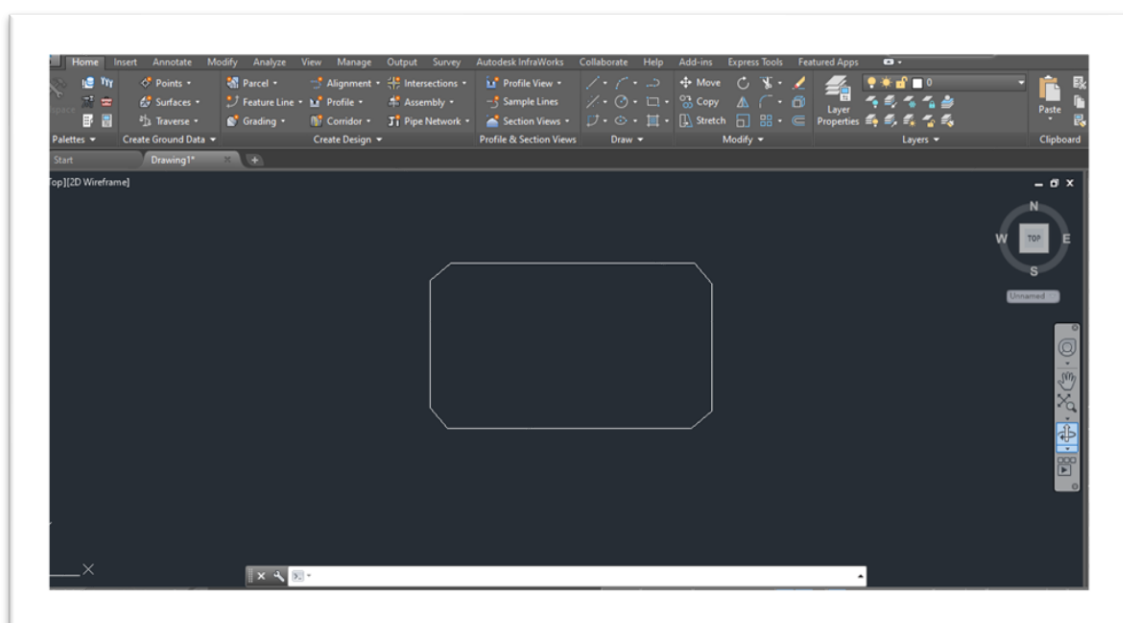
3. Rectangle Command :

To use Rectangle Command , write **rec** and press **Enter**. After it Select first corner and then second corner point and press **Enter** to draw a rectangle.



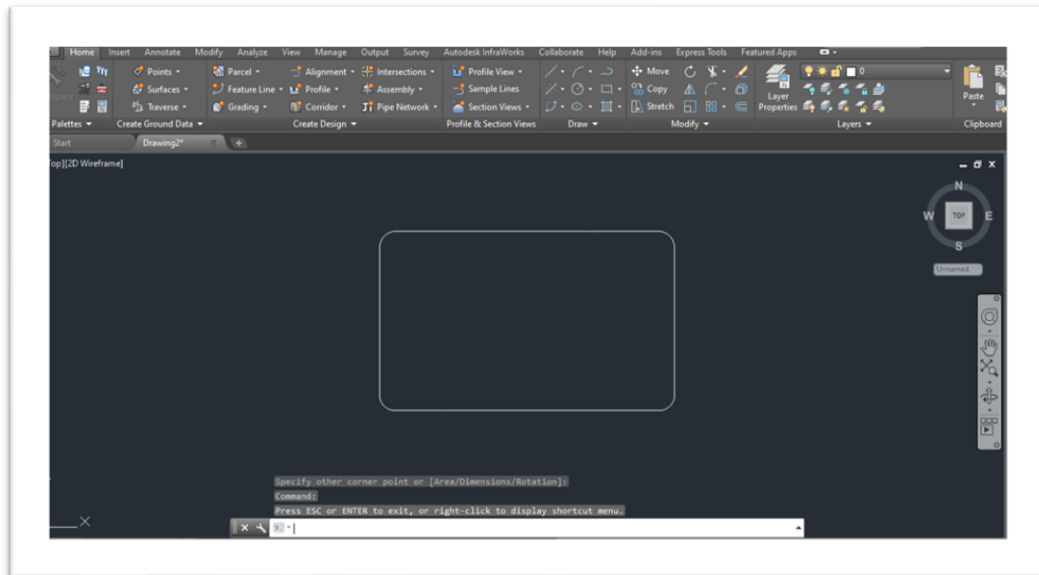
(a) Chamfer Command :

This command chamfers the edges of two 2D objects.



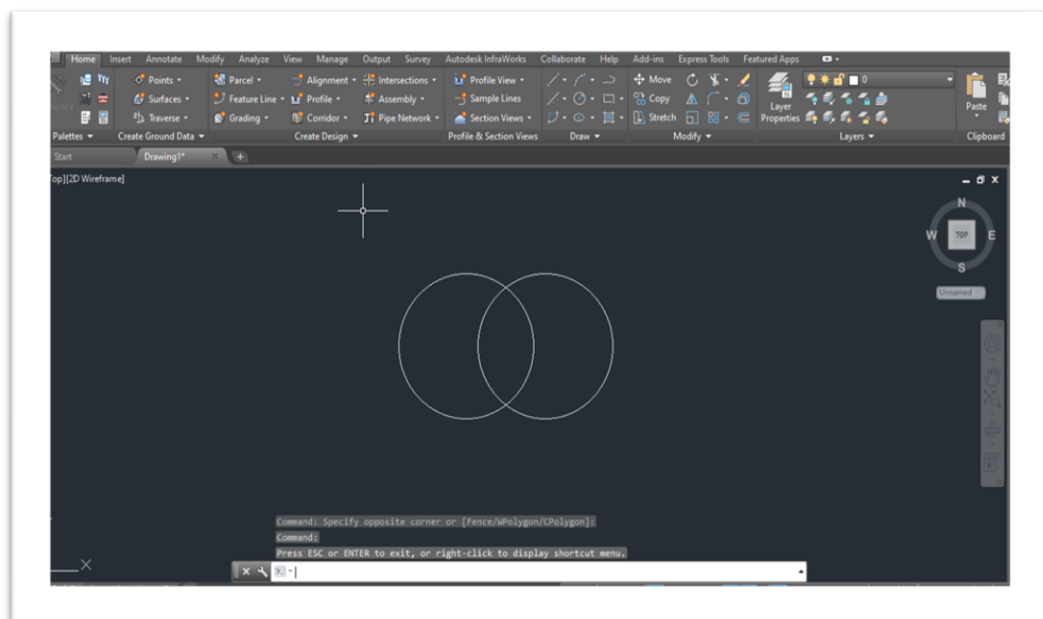
(b) Fillet Radius :

This command is used to round the edges of 2D objects.

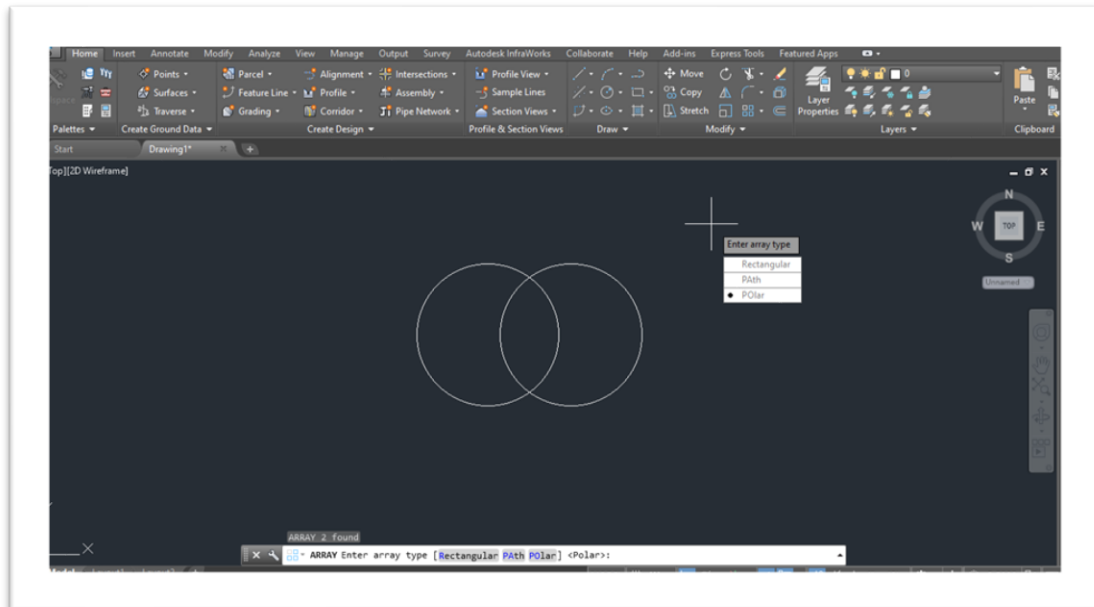


4. Array Command :

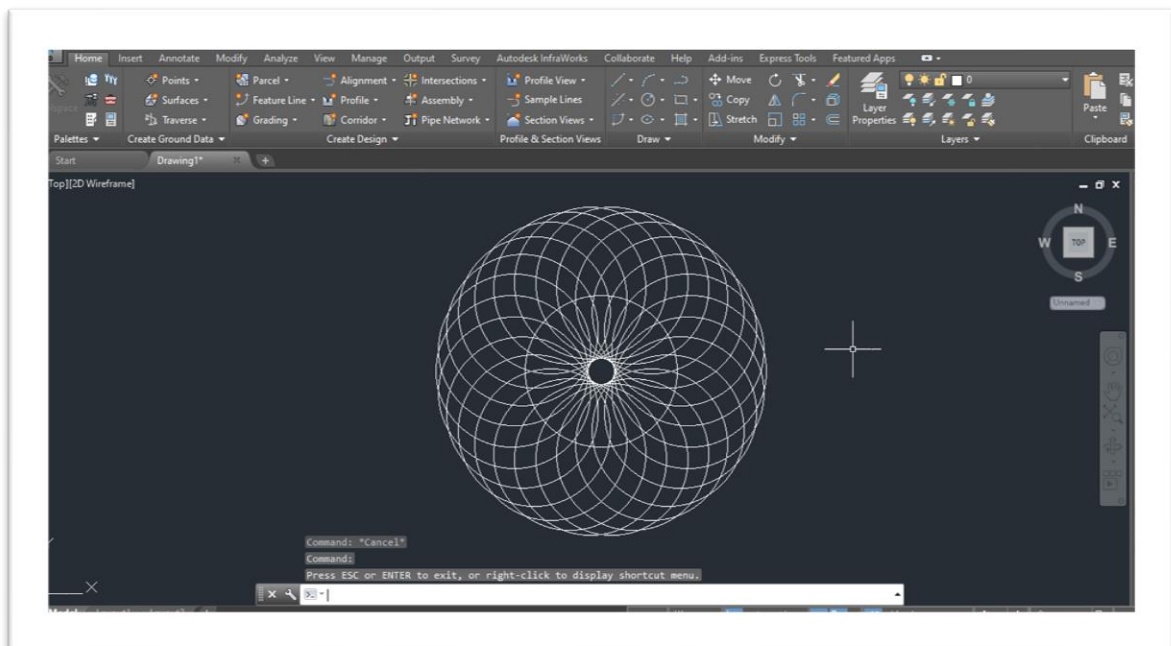
- *To use array command draw any shape (overlapped circles)*



- Now select the Shape and Write **AR** ,press **Enter**.Then we will choose Array type such as **Polar**

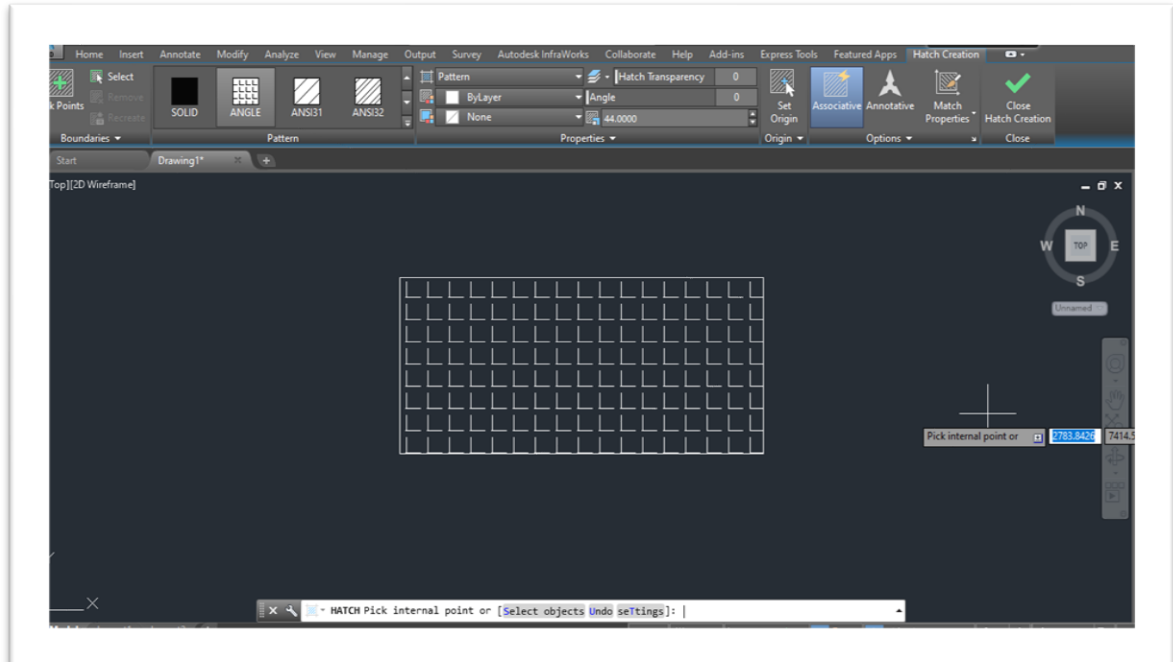


- Click polar and move the pointer to the geometric centre of the shape and Left Click on it, then the shape will repeated according to number of items.



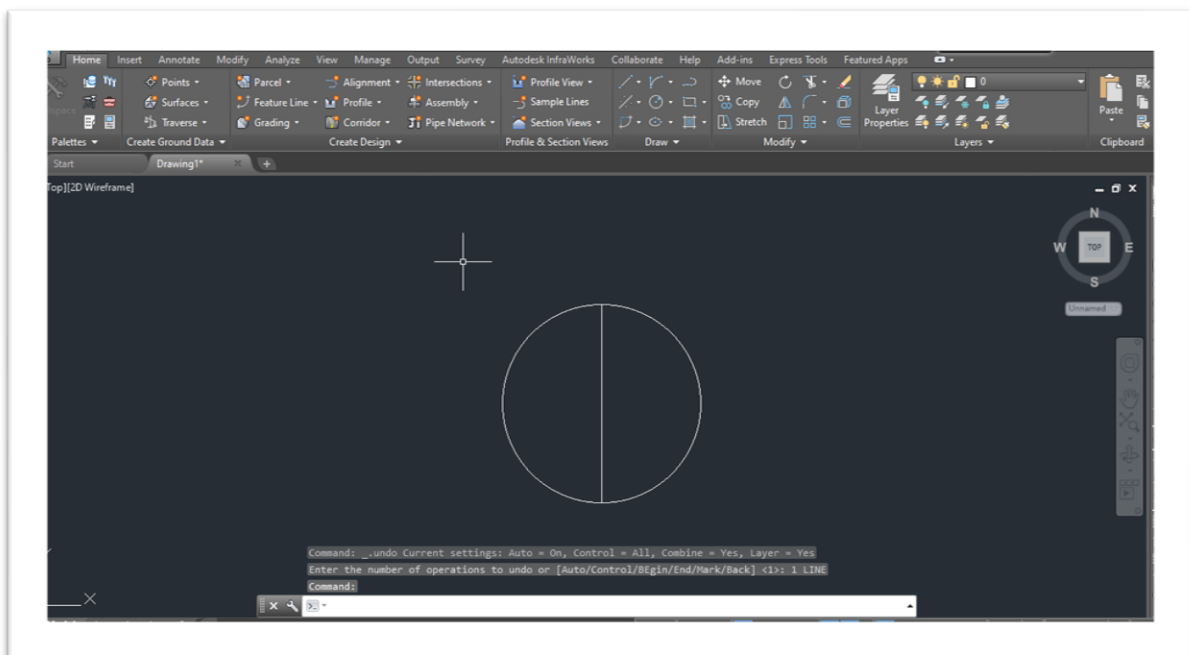
5. Hatch Command :

To use hatch command , click **H** and press **Enter**.After it choose any hatch pattern and left click inside the figure that you have made.



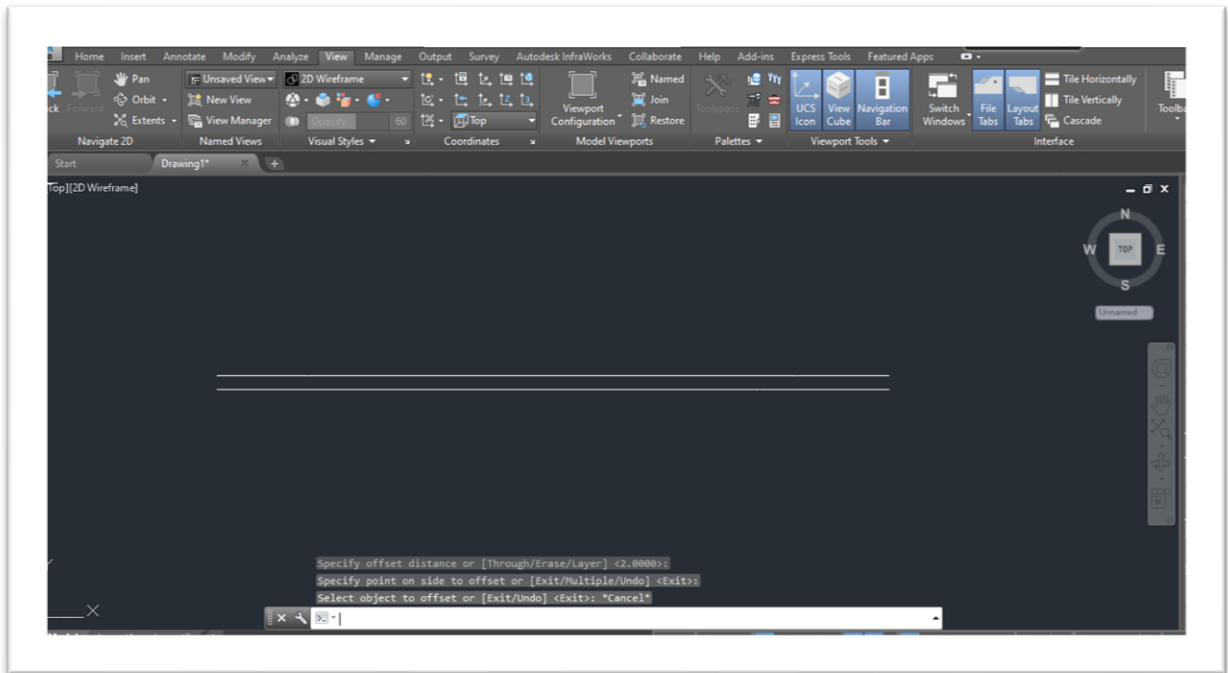
6. Mirror Command :

To Use mirror draw any figure , click it and type **(MI+Enter)** .Then move pointer to the object and click on it.



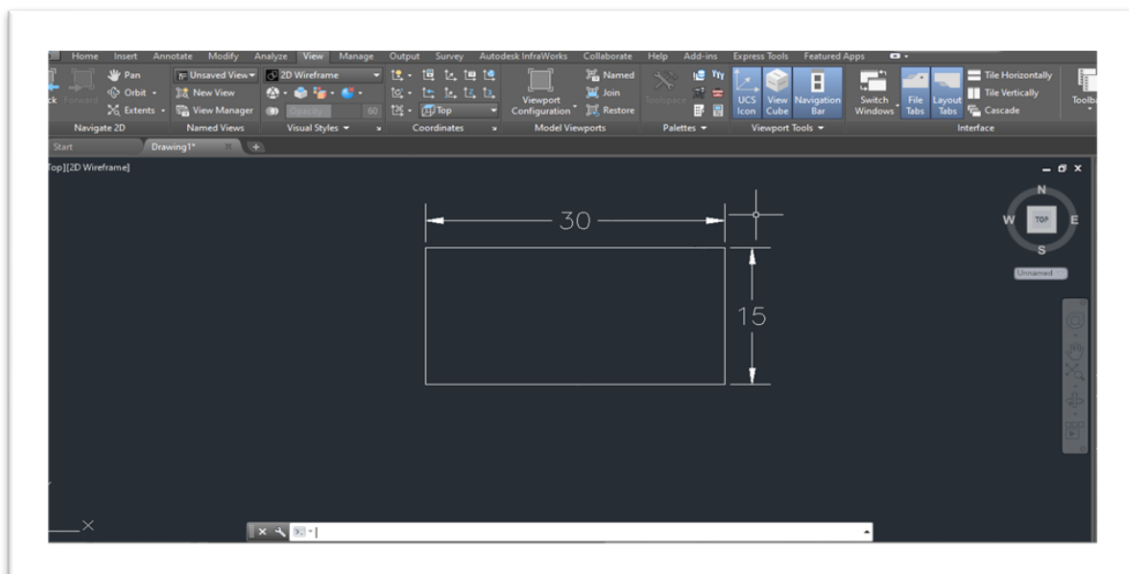
7. Offset Command :

To use offset command Select the object ,click *O* and press Enter.Now specify Offset distance to draw a line w.r.t given line /object .



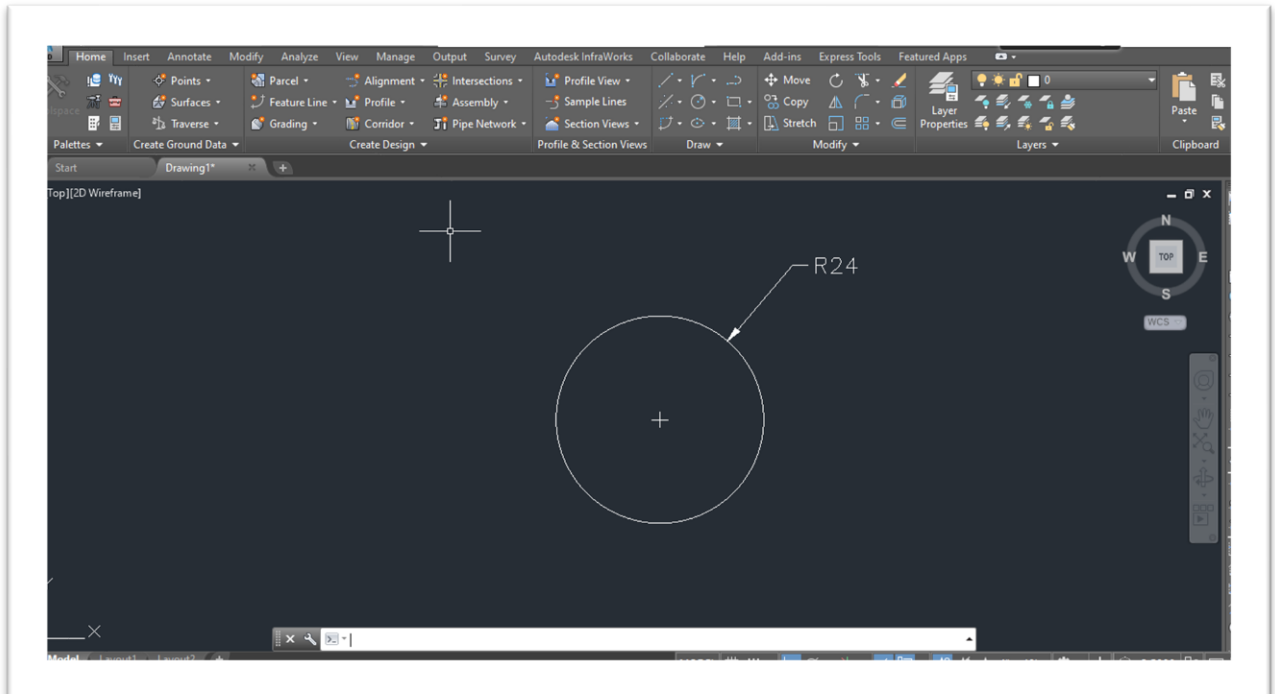
8. Dimaligned Command:

This command is used to measure the linear dimension with horizontal , vertical lines.To use it write **dimaligned** and press **Enter**.Then specify first and second extension line origin.



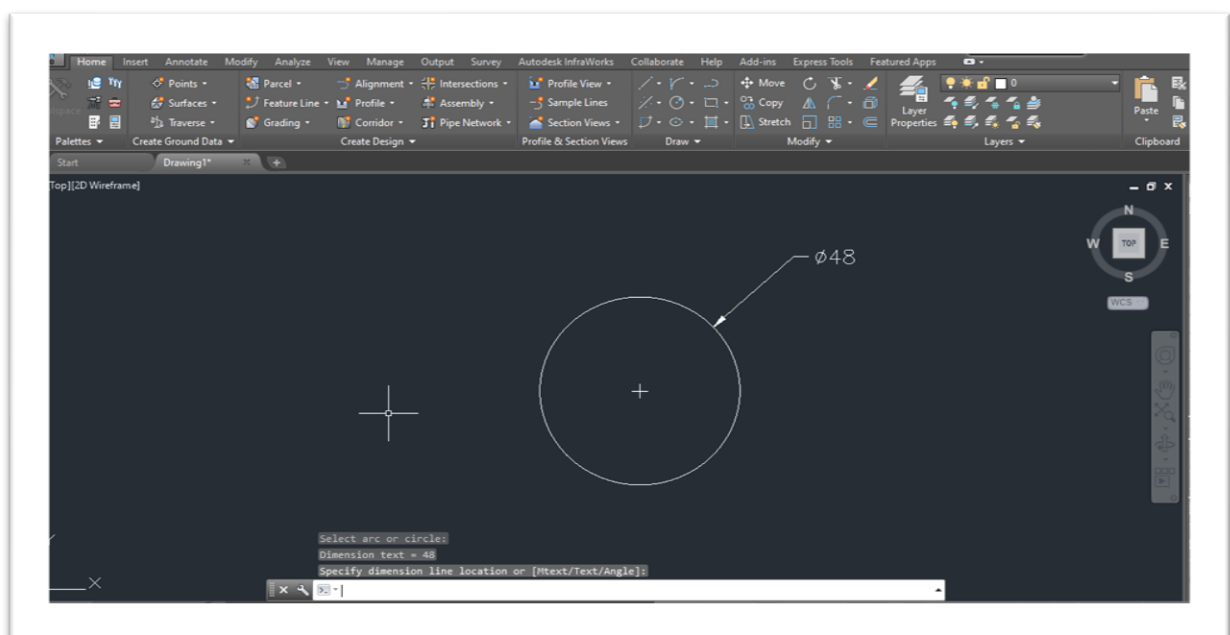
9. Dimradius Command :

*This command is used to measure the radius of circle using **(dimrad+enter)** and select the object(circle).*



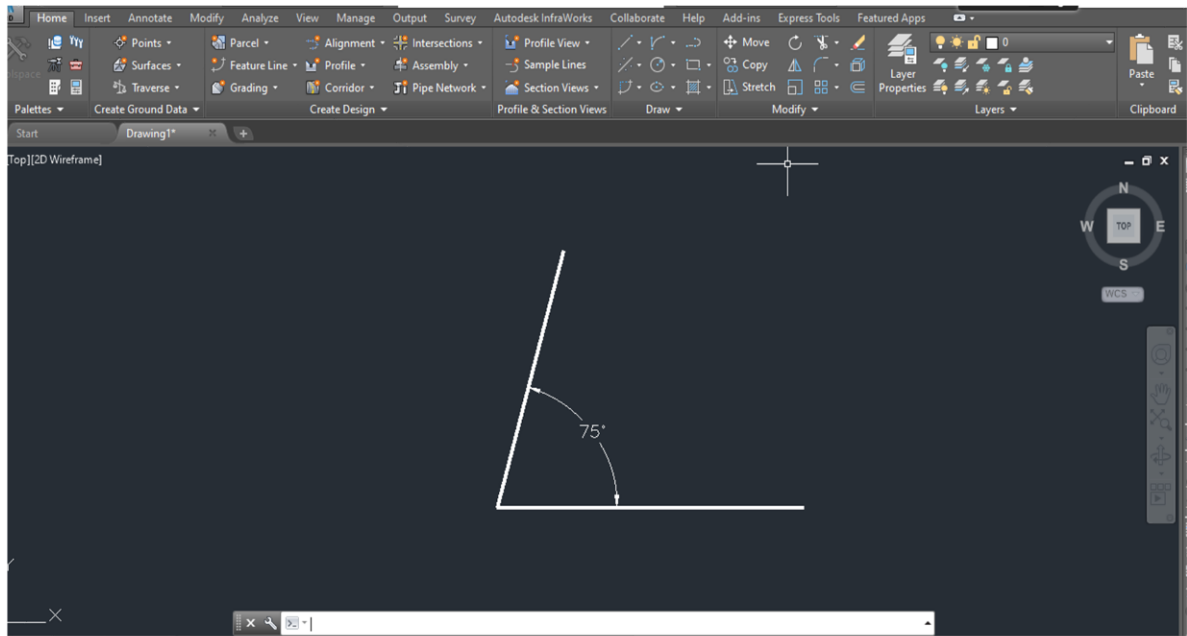
10. Dimdiameter Command:

*This command is used to measure the diameter of circle using **(dimdia+enter)** and select the object.*



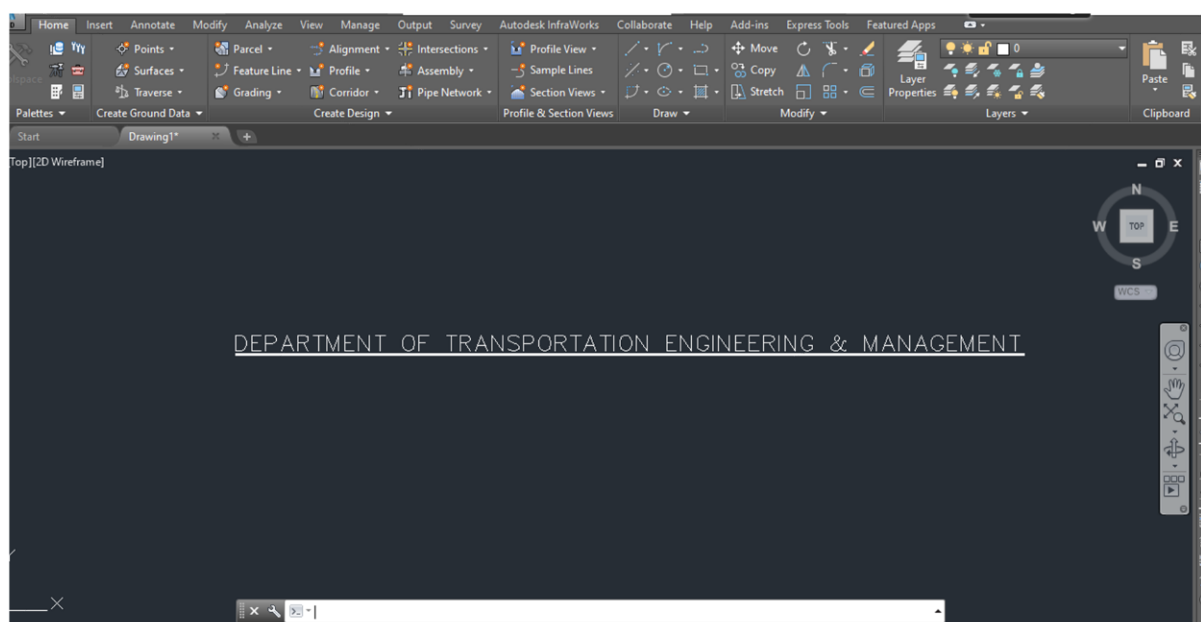
11. Dimangular Command :

*This command is used to measure angle between two lines meeting at a single point by using **(dan+enter)** and select both of them.*



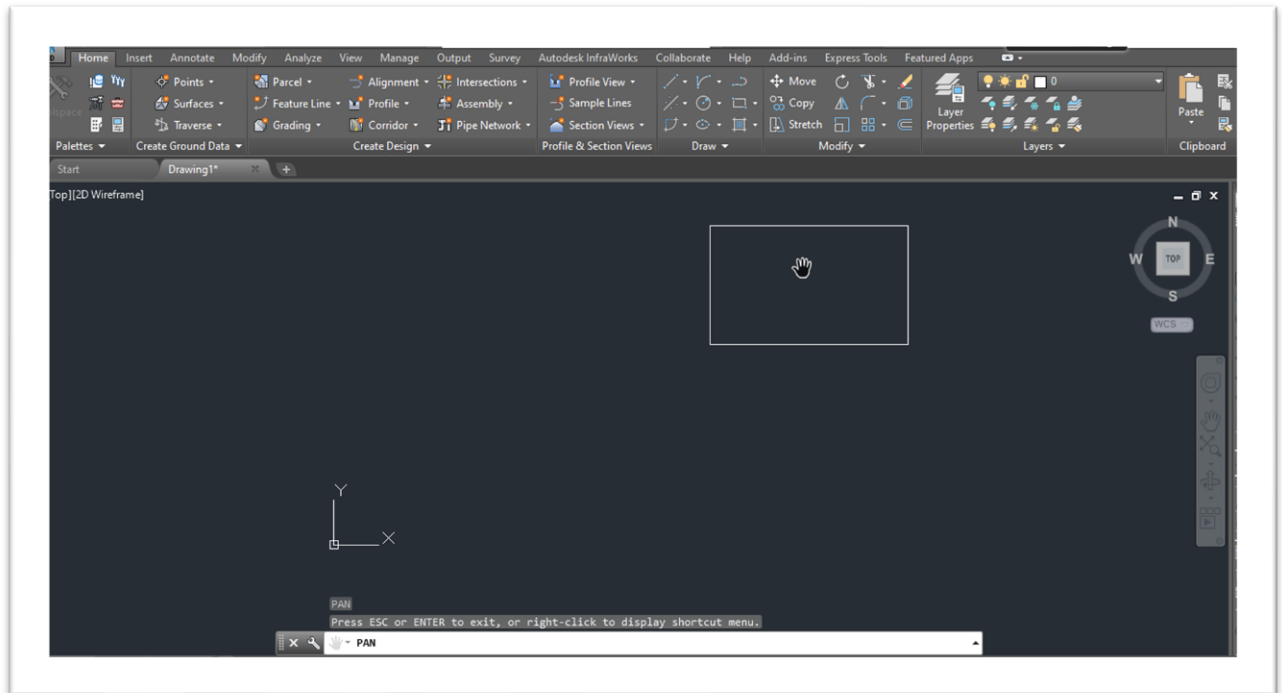
12. Text Command :

*This command is used to write a single line text using **(Text+enter)**.*



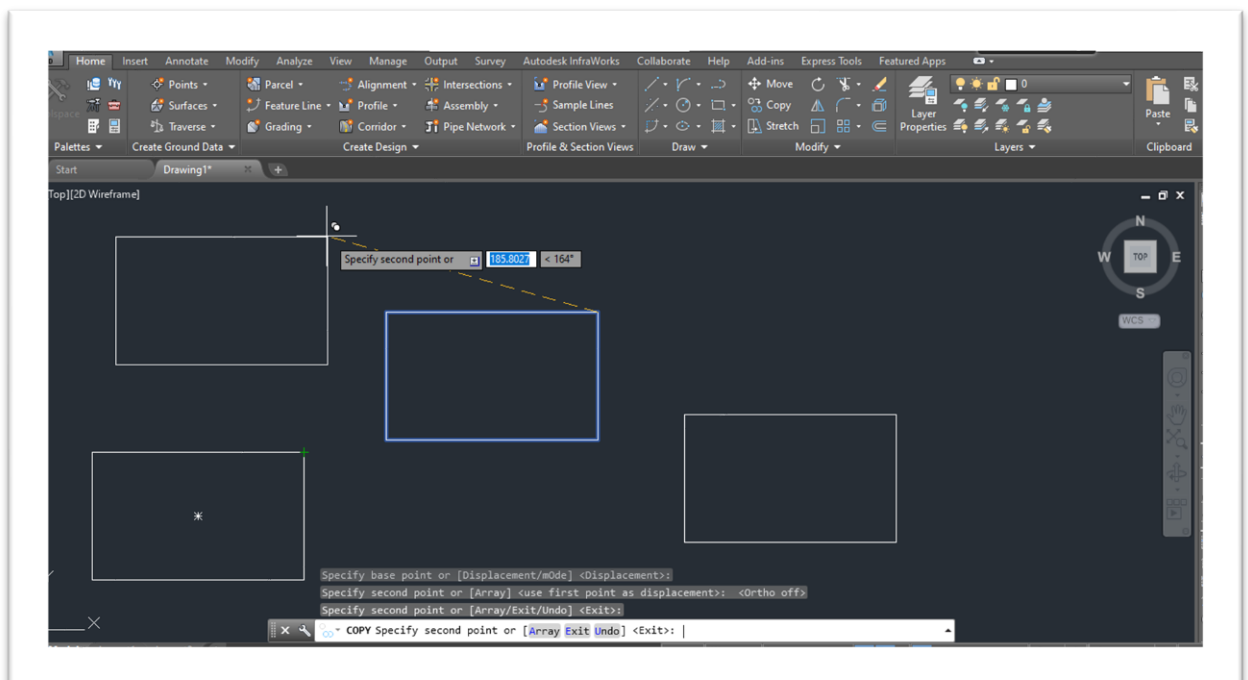
13. Pan Command :

This command is used to shift the view without changing its direction or magnification.



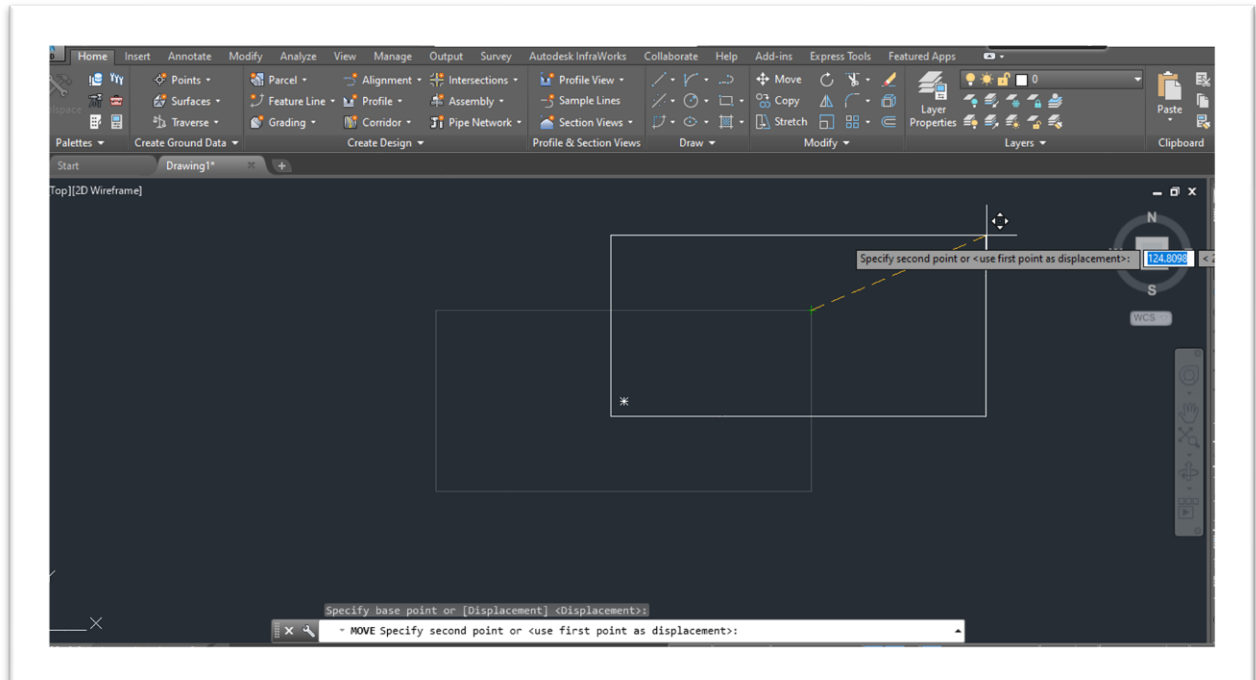
14. Copy Command :

This command is used to copy objects



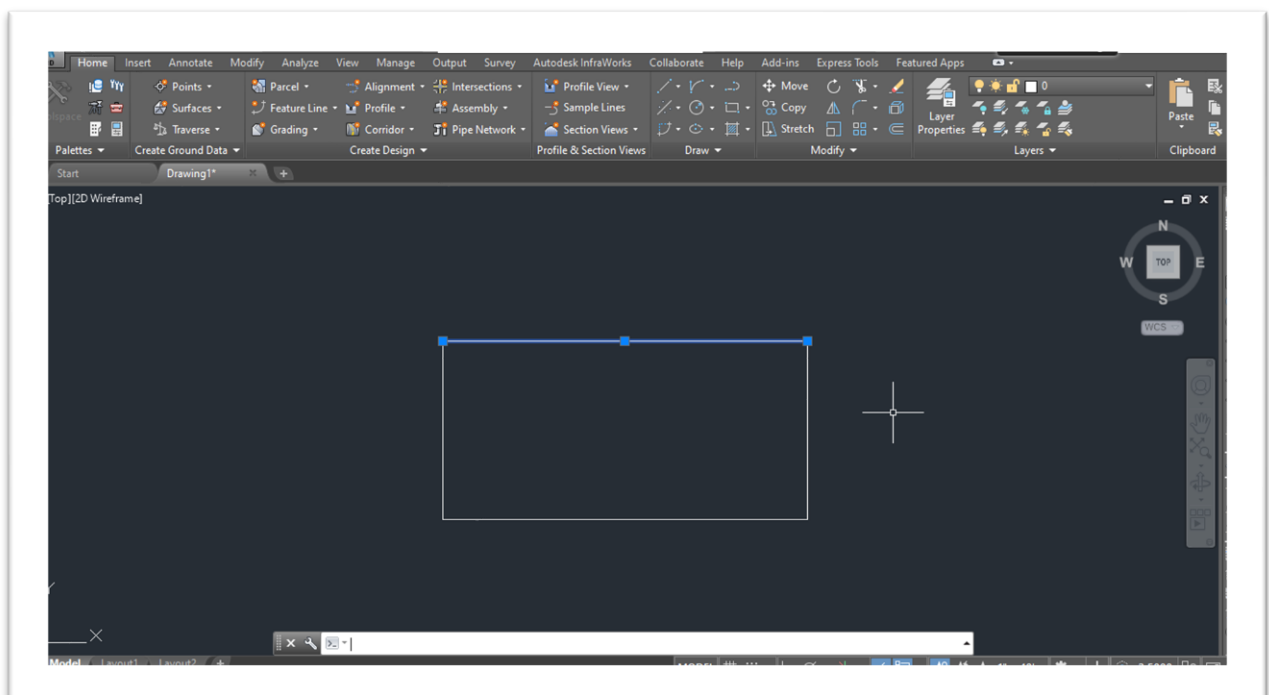
15. Move Command :

This command is used to move objects at a specific distance.



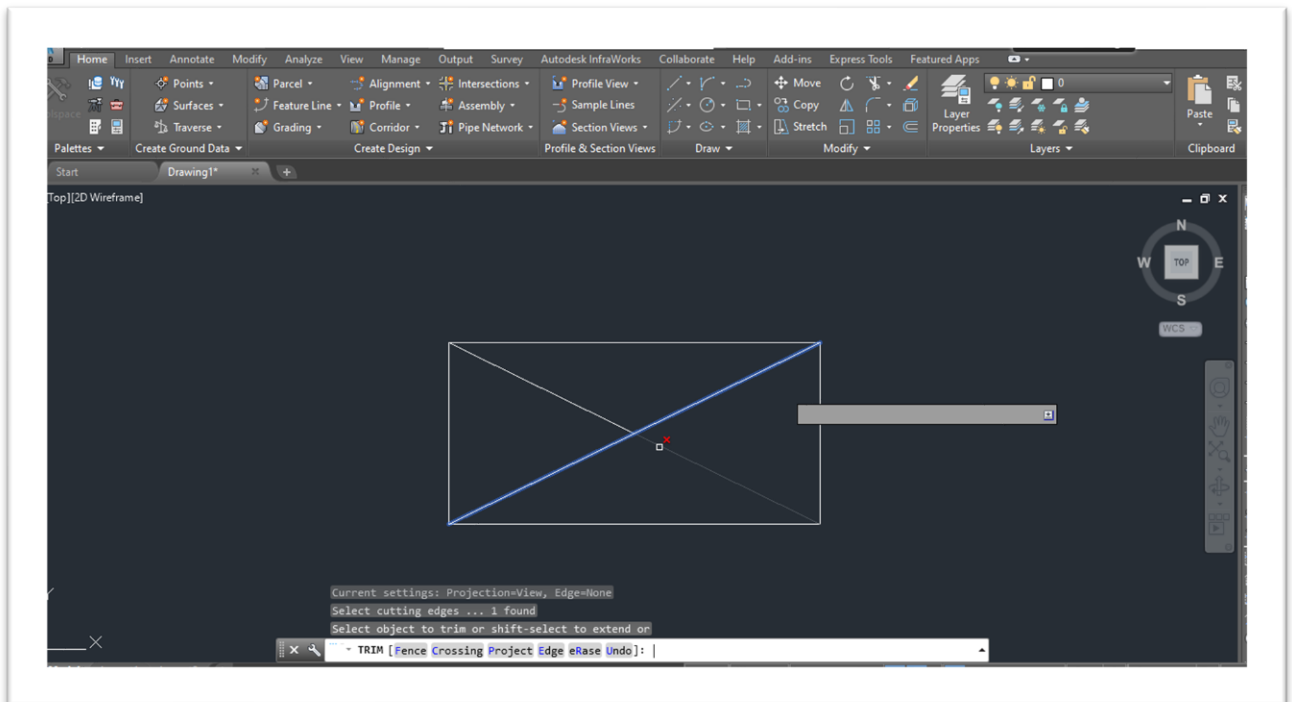
16. Explode Command :

This command is used to Breaks a compound objects into its component objects.



17.Trim Command :

This command is used to remove a short or full line.



18.Rotate Command :

This command is used to rotate an object w.r.t specific point.

