

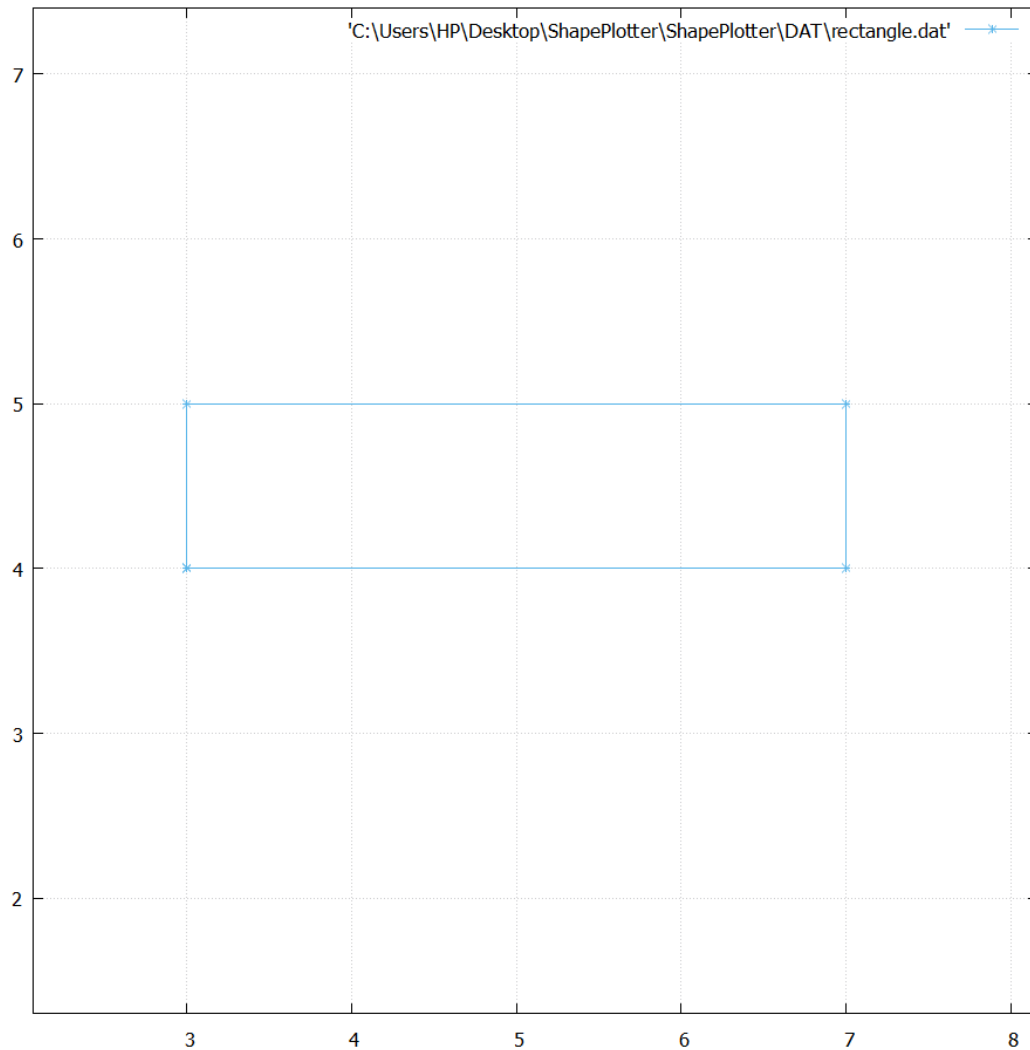
ShapePlotter : Input and Output Snapshots

Input :

```
Choose a shape to create and save:
1. Rectangle
2. Square
3. Circle
4. Triangle
5. Polygon
6. Line
7. Regular Polygon
8. Star
```

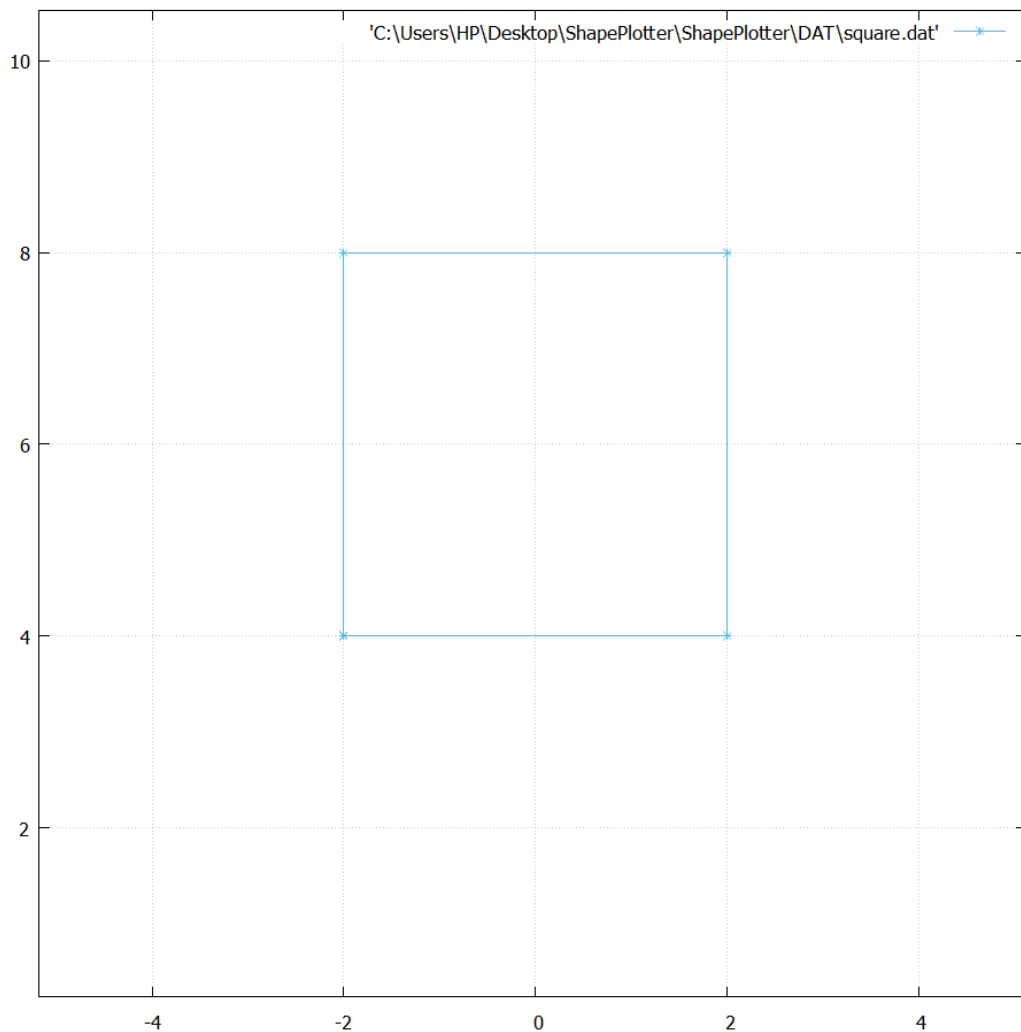
1.Rectangle

```
Choose a shape to create and save:
1. Rectangle
2. Square
3. Circle
4. Triangle
5. Polygon
6. Line
7. Regular Polygon
8. Star
1
Enter the bottom left point (x y) of the rectangle: 3 4
Enter the top right point (x y) of the rectangle: 7 5
Rectangle vertices: (3, 4) (7, 4) (7, 5) (3, 5) (3, 4)
Data successfully written to rectangle.dat
Rectangle data has been written to rectangle.dat.
```



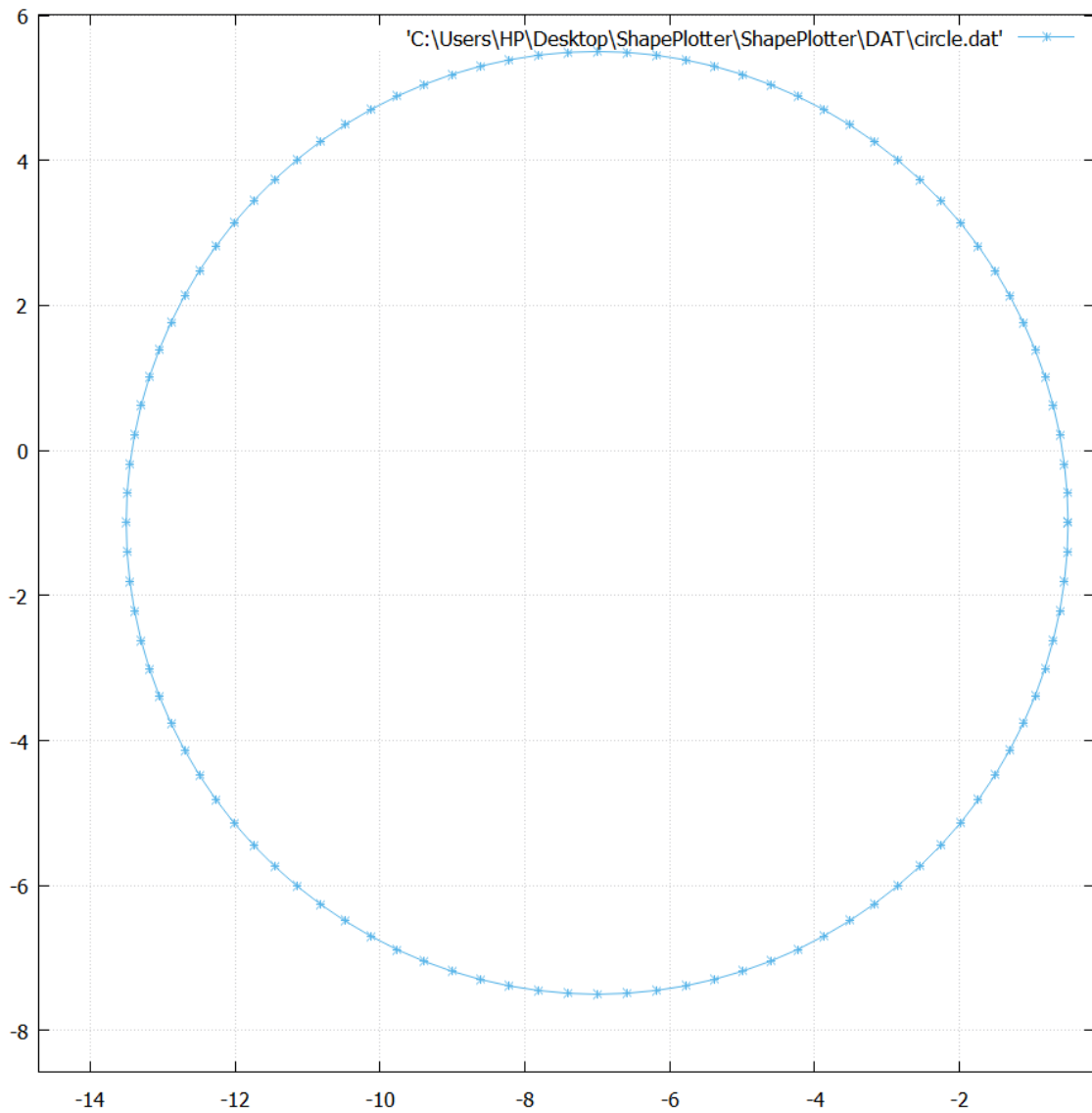
2.Sqaure

```
Choose a shape to create and save:
1. Rectangle
2. Square
3. Circle
4. Triangle
5. Polygon
6. Line
7. Regular Polygon
8. Star
2
Enter the bottom left point (x y) of the square: -2 4
Enter the side length of the square: 4
Square: (-2, 4) (2, 4) (2, 8) (-2, 8) (-2, 4)
Data successfully written to square.dat
Square data has been written to square.dat.
```



3.Circle

```
Choose a shape to create and save:
1. Rectangle
2. Square
3. Circle
4. Triangle
5. Polygon
6. Line
7. Regular Polygon
8. Star
3
Enter the center point (x y) of the circle: -7 -1
Enter the radius of the circle: 6.5
Circle: Center (-7, -1), Radius: 6.5
Data successfully written to circle.dat
Circle data has been written to circle.dat.
```



4.Triangle

```
Choose a shape to create and save:
```

1. Rectangle
2. Square
3. Circle
4. Triangle
5. Polygon
6. Line
7. Regular Polygon
8. Star

```
4
```

```
Enter the first point (x y) of the triangle: 4 3
```

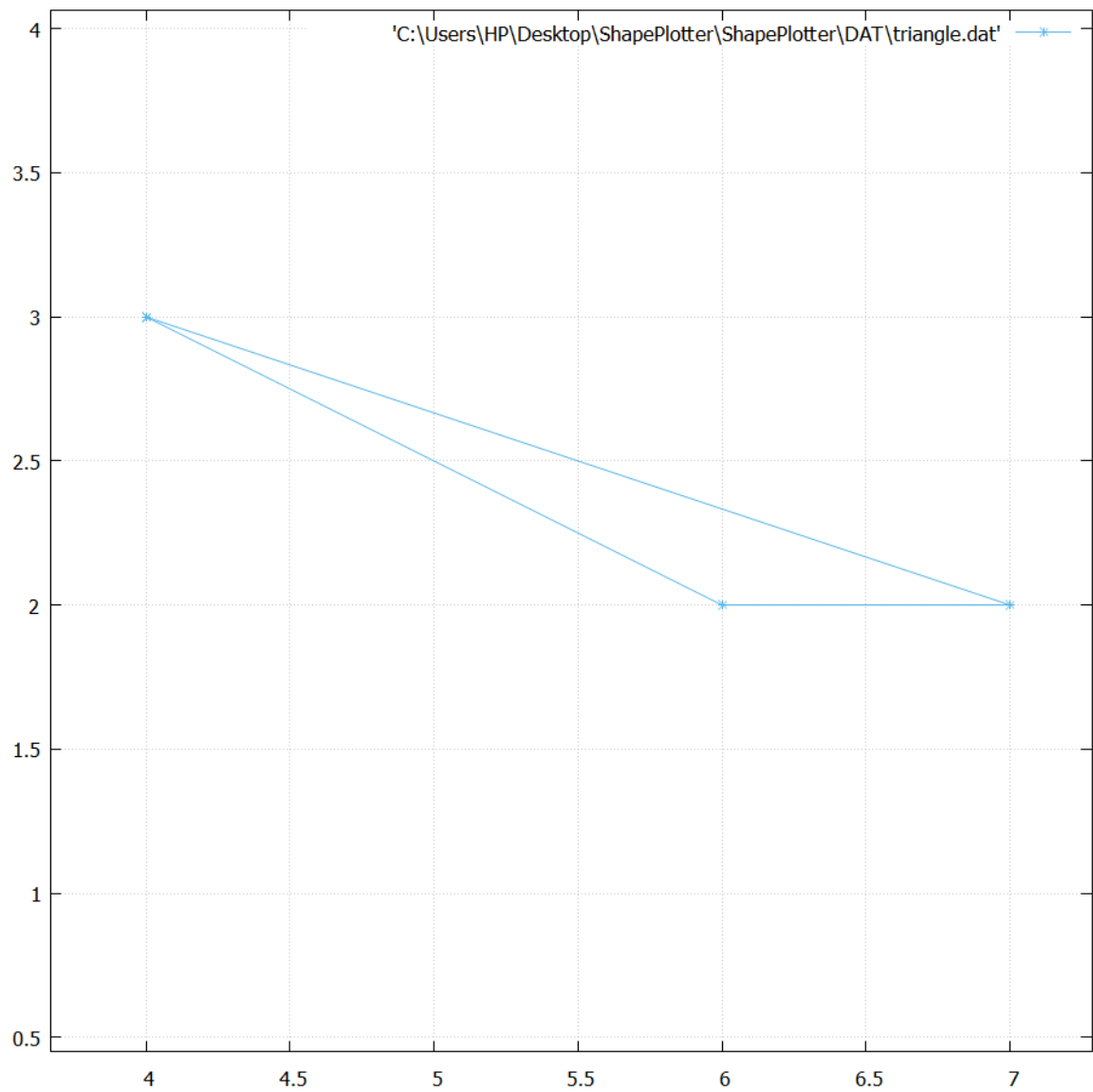
```
Enter the second point (x y) of the triangle: 6 2
```

```
Enter the third point (x y) of the triangle: 7 2
```

```
Triangle: (4, 3) (6, 2) (7, 2) (4, 3)
```

```
Data successfully written to triangle.dat
```

```
Triangle data has been written to triangle.dat.
```



5.Polygon

Choose a shape to create and save:

1. Rectangle
2. Square
3. Circle
4. Triangle
5. Polygon
6. Line
7. Regular Polygon
8. Star

5

Enter the number of sides of the polygon: 4

Enter vertex 1 (x y): 1 1

Enter vertex 2 (x y): 4 5

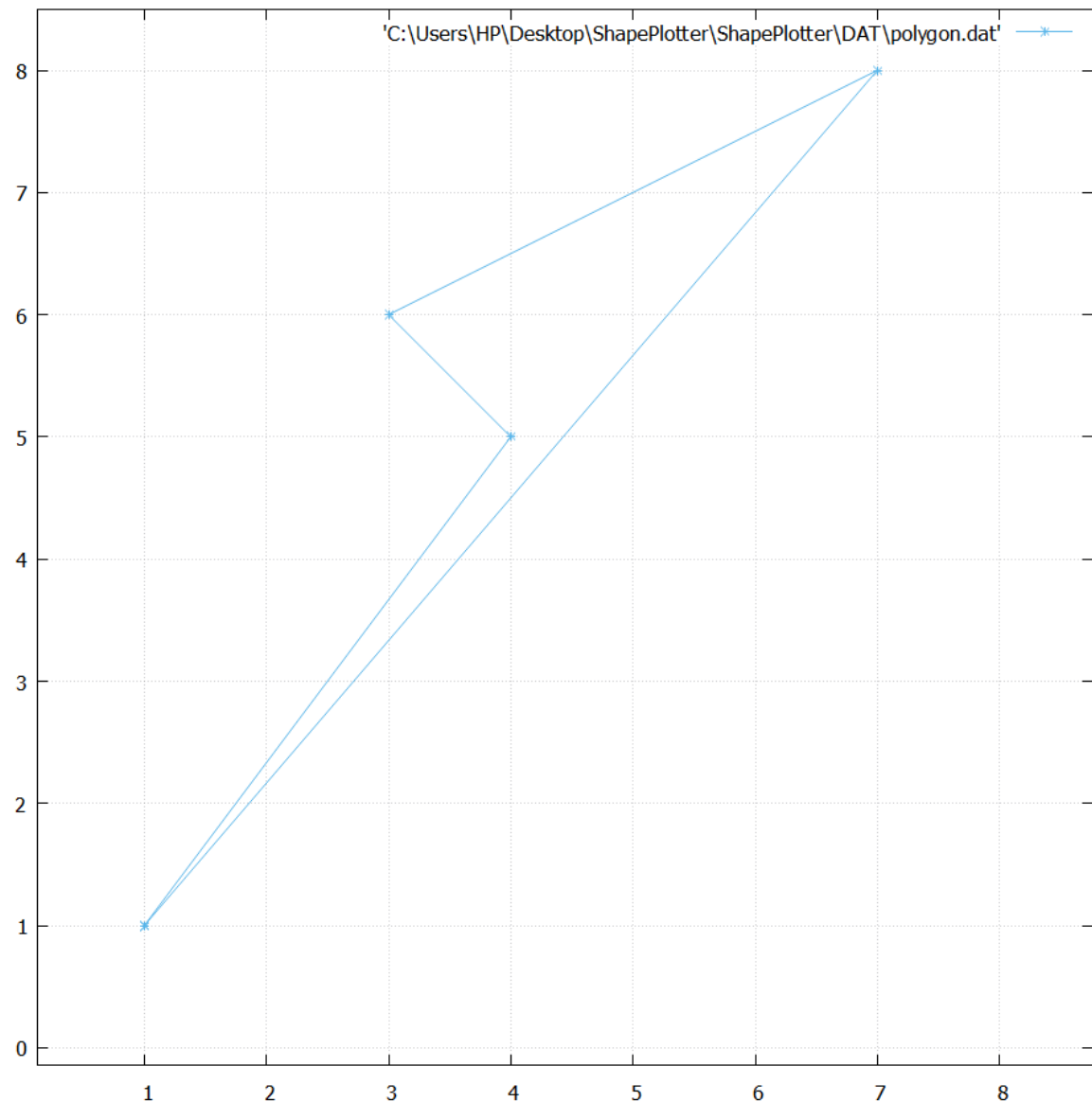
Enter vertex 3 (x y): 3 6

Enter vertex 4 (x y): 7 8

Polygon with 4 sides: (1, 1) (4, 5) (3, 6) (7, 8) (1, 1)

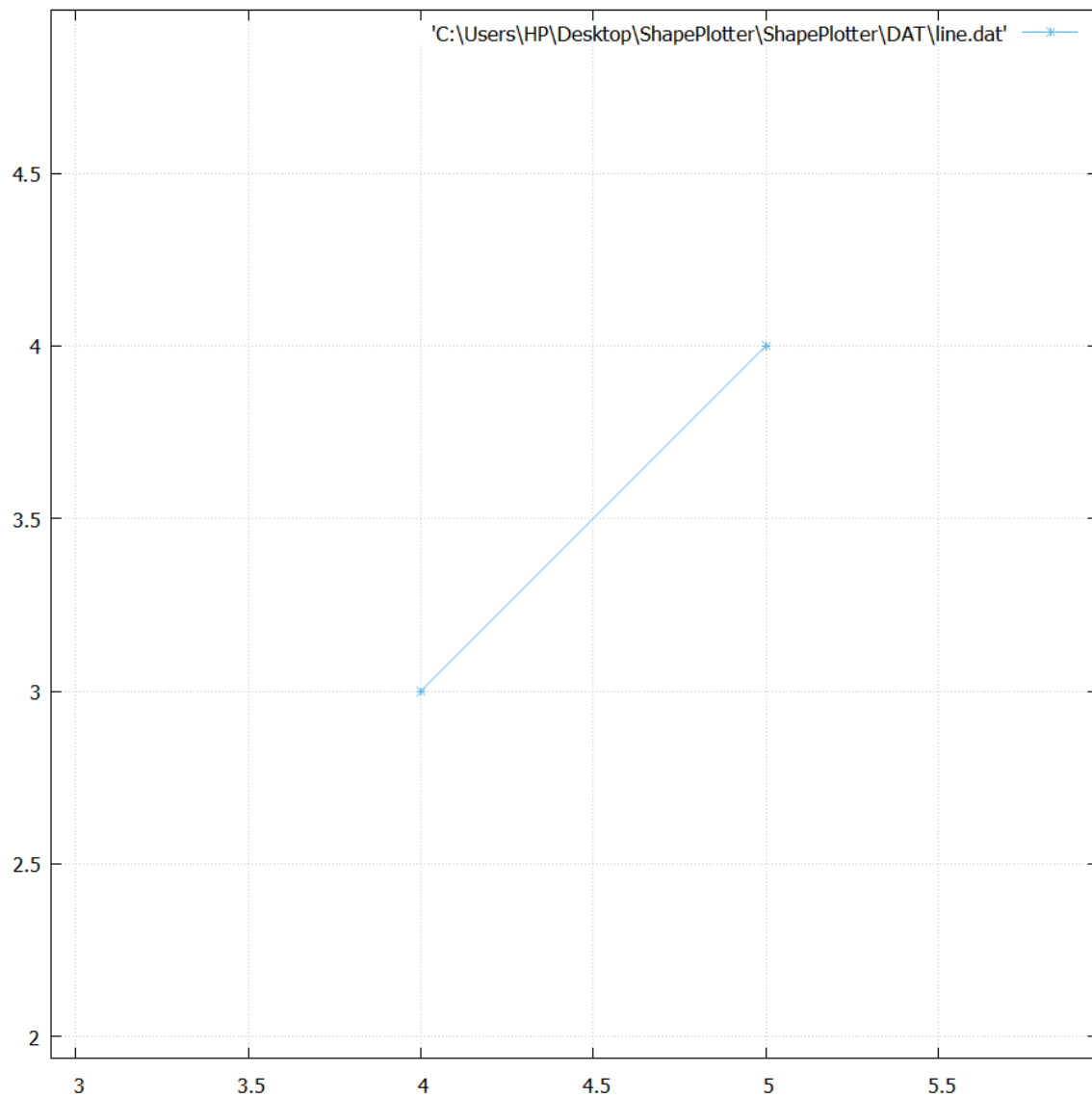
Data successfully written to polygon.dat

Polygon data has been written to polygon.dat.



6.Line

```
Choose a shape to create and save:  
1. Rectangle  
2. Square  
3. Circle  
4. Triangle  
5. Polygon  
6. Line  
7. Regular Polygon  
8. Star  
6  
Enter the first point (x y) of the line: 4 3  
Enter the second point (x y) of the line: 5 4  
Line: (4, 3) (5, 4)  
Data successfully written to line.dat  
Line data has been written to line.dat.
```



7.Regular Polygon

Choose a shape to create and save:

1. Rectangle
 2. Square
 3. Circle
 4. Triangle
 5. Polygon
 6. Line
 7. Regular Polygon
 8. Star
- 7

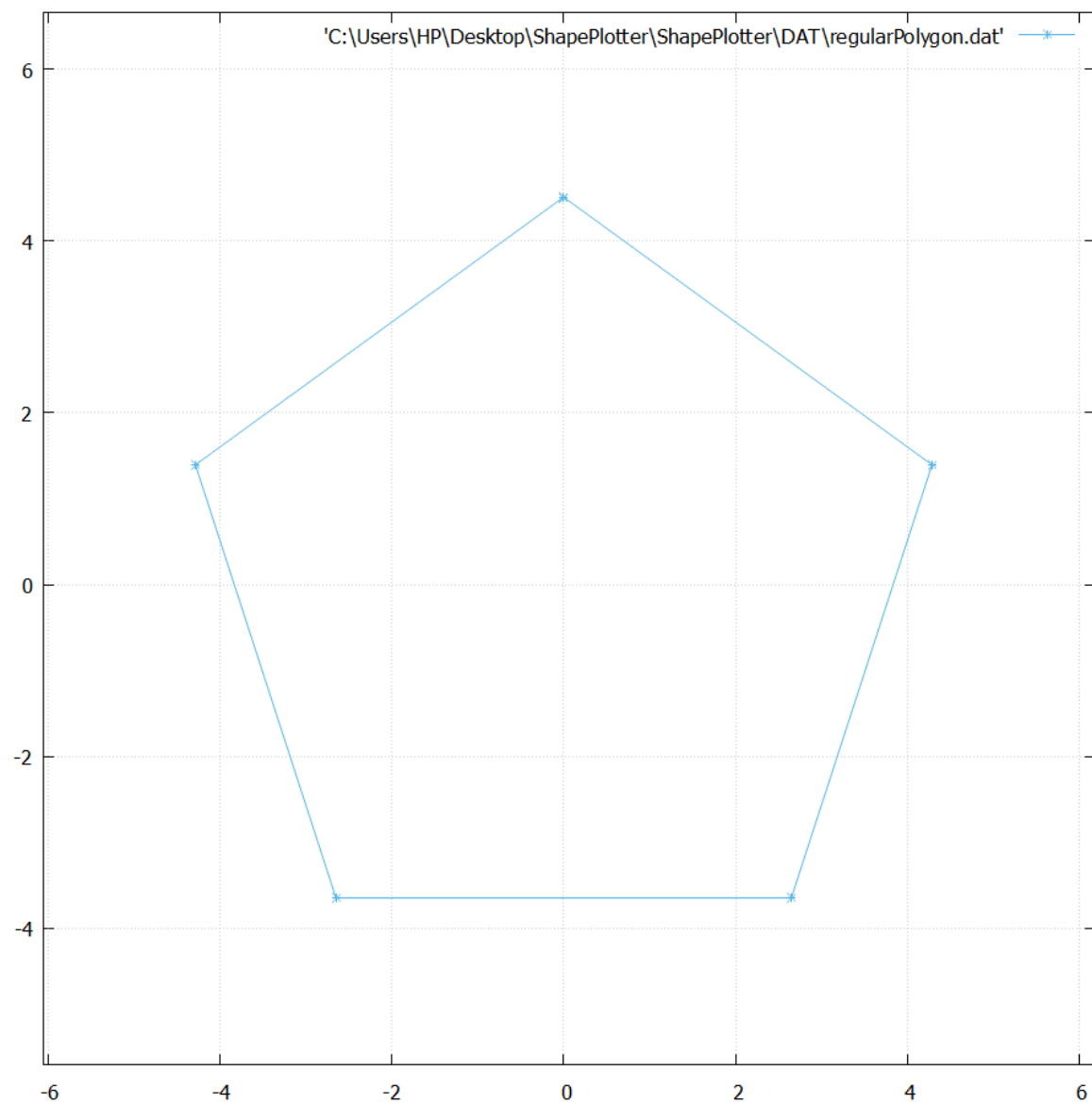
Enter the number of sides of the polygon: 5

Enter the Length of side of the polygon: 5.3

Regular Polygon with 5 sides with centre as origin.

Data successfully written to regularPolygon.dat

RegularPolygon data has been written to regularPolygon.dat.



8.Star

Choose a shape to create and save:

1. Rectangle
2. Square
3. Circle
4. Triangle
5. Polygon
6. Line
7. Regular Polygon
8. Star

Enter the number of points to make a star: 8

Star with 8 sides with centre as origin.

Data successfully written to star.dat

Star data has been written to star.dat.

