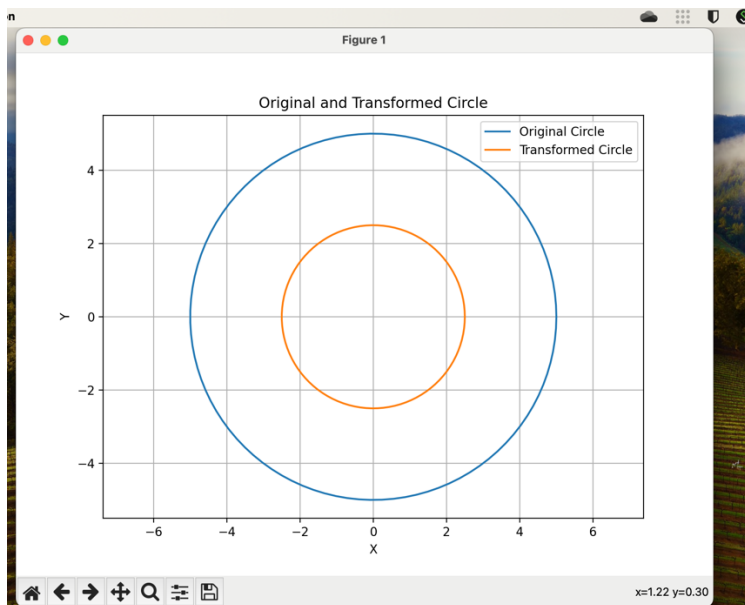


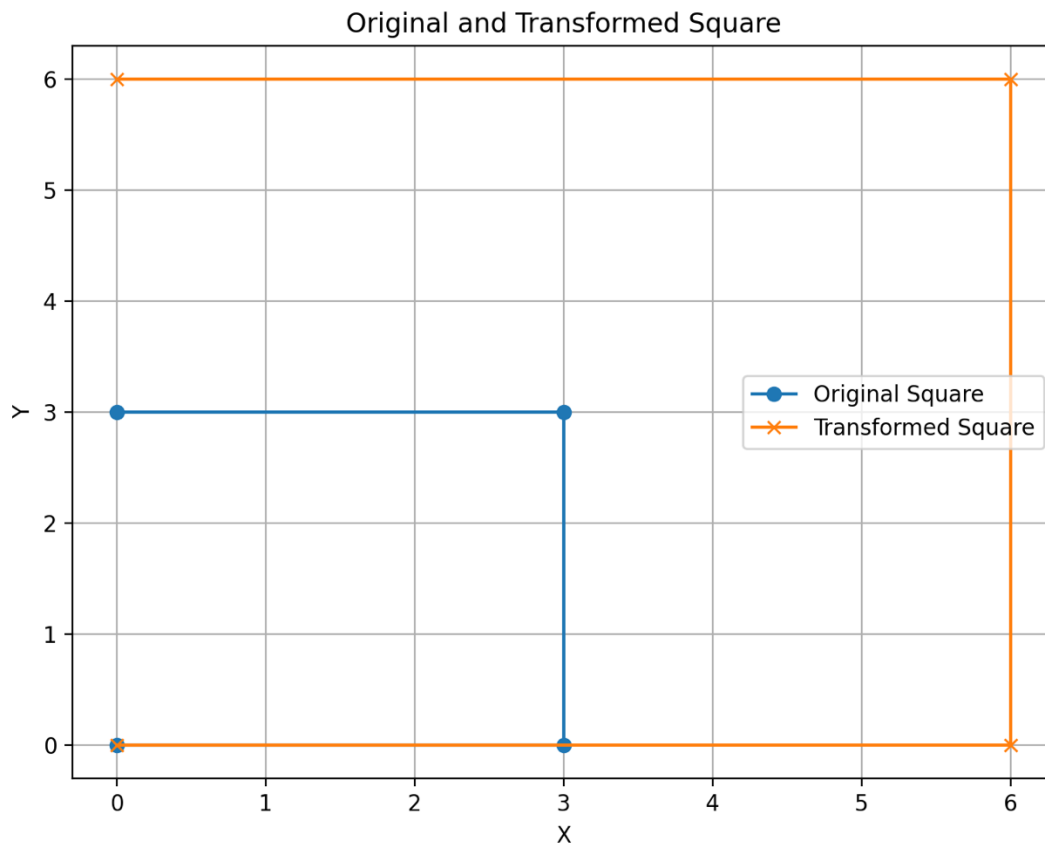
```
(base) sanket@Sankets-MBP Planar-Transformation % python circle.py
Enter the radius of the circle: 3
Enter the scale factor: 2
```



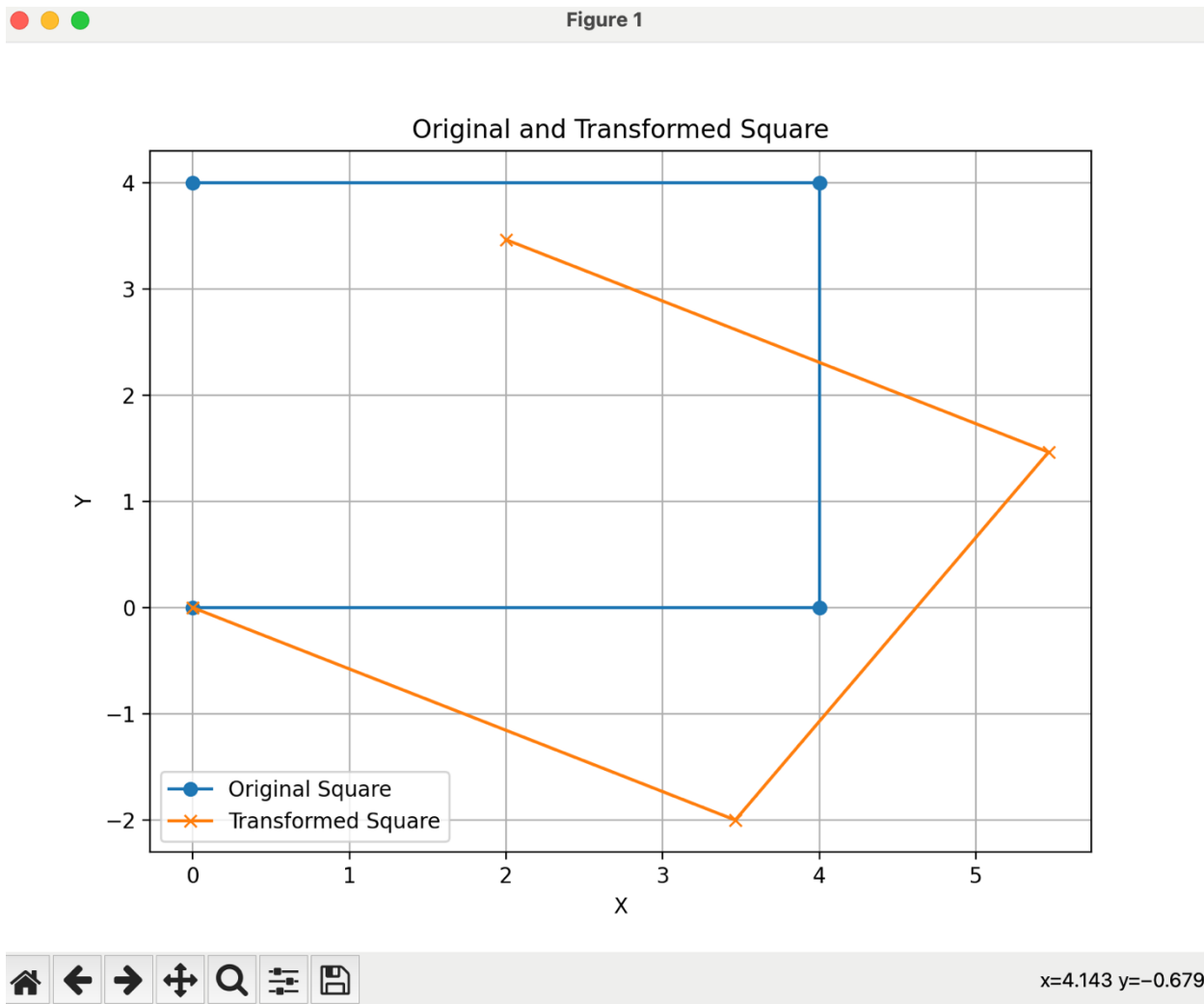
```
(base) sanket@Sankets-MBP Planar-Transformation % python circle.py
Enter the radius of the circle: 5
Enter the scale factor: 0.5
```

## Scaling

Figure 1



```
● (base) sanket@Sankets-MBP Planar-Transformation % python square.py
Enter the size of the square: 3
Choose a transformation:
1. Scale
2. Rotate
3. Translate
Enter the corresponding number (1/2/3): 1
Enter the scale factor: 2
```



```
● (base) sanket@Sankets-MBP Planar-Transformation % python square.py
Enter the size of the square: 4
Choose a transformation:
1. Scale
2. Rotate
3. Translate
Enter the corresponding number (1/2/3): 2
Enter the rotation angle (in degrees): 30
○ (base) sanket@Sankets-MBP Planar-Transformation %
```

## Translation

