Aashish Shrestha.

Unit #1.2
5) Write both procedural and object oriented programs to calculate the area of a
a) Circle
b) Square
c) Rectangle
d) Sphere
Program :

```java
package AdvanceJAVA;

import java.util.Scanner;

public class Main {

    public static void main(String[] args) {
        double
radiusCircle,radiusSphere,lengthSquare,lengthRectangle,breadthRectangle;
        Scanner input = new Scanner(System.in);
        System.out.println("Enter the radius of the Circle\n");
        radiusCircle = input.nextDouble();
        System.out.println("Enter the radius of the Sphere\n");
        radiusSphere = input.nextDouble();
        System.out.println("Enter the length of a side of the Square\n");
        lengthSquare = input.nextDouble();
        System.out.println("Enter the length of the Rectangle\n");
        lengthRectangle = input.nextDouble();
        System.out.println("Enter the breadth of the Rectangle\n");
        breadthRectangle =input.nextDouble();
        System.out.println("\nThe area of Circle is ::"+
(Math.PI*radiusCircle*radiusCircle));
        System.out.println("\nThe area of Circle is ::"+
(Math.PI*radiusCircle*radiusCircle));
        System.out.println("\nThe area of Rectangle is ::"+
(lengthRectangle*breadthRectangle));
        System.out.println("\nThe area of Square is ::"+
(Math.pow(lengthSquare,2)));
    }
}
```

Output :

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```
/home/aashish/.jdks/openjdk-14.0.1-1/bin/jav
Enter the radius of the Circle

10
Enter the radius of the Sphere

10
Enter the length of a side of the Square

10
Enter the length of the Rectangle

10
Enter the breadth of the Rectangle

10

The area of Circle is ::314.1592653589793

The area of Circle is ::314.1592653589793

The area of Rectangle is ::100.0

The area of Square is ::100.0
```