

OBJECT ORIENTED PROGRAMMING LAB**Experiment No: 8****Aim**

Area of different shapes using overloaded functions

Procedure

```
import java.util.Scanner;
```

```
public class Areaofshapes {  
    public static void main (String[] args)  
    {  
        float r;  
        int s,a,b;  
  
        System.out.println("Enter Radius of circle:");  
        Scanner input = new Scanner(System.in);  
        r = input.nextFloat();  
  
        System.out.println("Enter Side of square:");  
        s = input.nextInt();  
  
        System.out.println("Enter length and breadth of rectangle:");  
        a = input.nextInt();  
        b = input.nextInt();  
  
        System.out.println("Area of Circle= "+area(r,3.142f));  
        System.out.println("Area of Square= "+area(s));  
        System.out.println("Area of Rectangle= "+area(a,b));  
    }  
  
    public static float area(float a,float pi)  
    {  
        float ar = pi*a*a;
```

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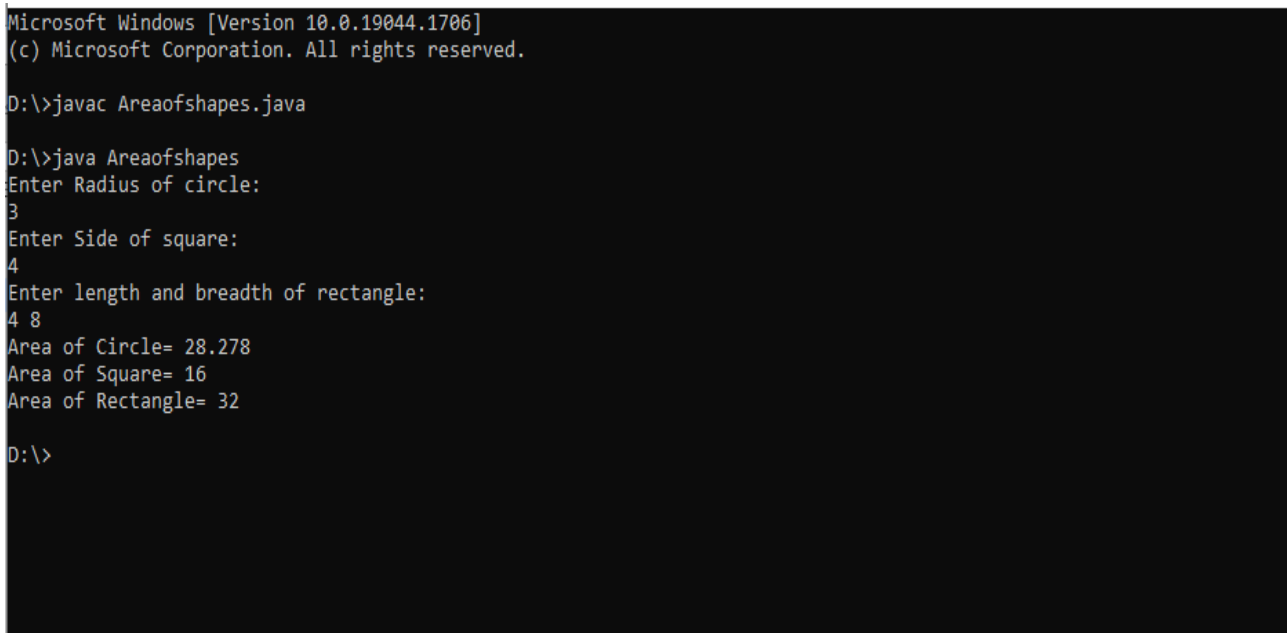
Date: 17-05-2022

```
        return ar;
    }

    public static int area(int a)
    {
        int ar = a*a;
        return ar;
    }

    public static int area(int a,int b)
    {
        int ar = a*b;
        return ar;
    }
}
```

Output Screenshot



```
Microsoft Windows [Version 10.0.19044.1706]
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D:\>javac Areaofshapes.java

D:\>java Areaofshapes
Enter Radius of circle:
3
Enter Side of square:
4
Enter length and breadth of rectangle:
4 8
Area of Circle= 28.278
Area of Square= 16
Area of Rectangle= 32

D:\>
```