OBJECT ORIENTED PROGRAMMING LAB

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Batch: S2 RMCA B

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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;
```

```
        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