

OBJECT ORIENTED PROGRAMMING LAB**Experiment No.: 10****Aim:**

Area of different shapes using overloaded functions.

Procedure:

```
import java.util.*;

class OverloadDemo
{
    void area(float x)
    {
        System.out.println("\nThe Area of square is " +x*x+ " sq units");
    }
    void area(float x,float y)
    {
        System.out.println("The Area of rectangle is " +x*y+ " sq units");
    }
    void area(double x)
    {
        double z=3.14*x*x;
        System.out.println("The Area of circle is " +z+ " sq units");
    }
}

class Overload
{
    public static void main(String args[])
    {
        int square;
        int rect1,rect2;
        double circle;
        Scanner sc=new Scanner(System.in);
        System.out.print("\nEnter the side of square:");
```

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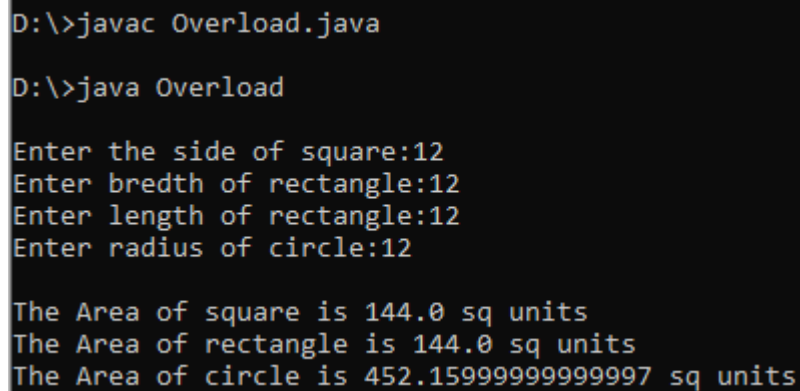
Roll No: 10

Batch: S2 RMCA-B

Date: 23/05/2022

```
square=sc.nextInt();  
System.out.print("Enter bredth of rectangle:");  
rect1=sc.nextInt();  
System.out.print("Enter length of rectangle:");  
rect2=sc.nextInt();  
System.out.print("Enter radius of circle:");  
circle=sc.nextDouble();  
OverloadDemo obj=new OverloadDemo();  
obj.area(square);  
obj.area(rect1,rect2);  
obj.area(circle);  
}  
}
```

Output Screenshot:



```
D:\>javac Overload.java  
D:\>java Overload  
  
Enter the side of square:12  
Enter bredth of rectangle:12  
Enter length of rectangle:12  
Enter radius of circle:12  
  
The Area of square is 144.0 sq units  
The Area of rectangle is 144.0 sq units  
The Area of circle is 452.15999999999997 sq units
```