OBJECT ORIENTED PROGRAMMING LAB

Experiment No.: 9

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Roll No:54

Batch: B

Date:13/05/2022

Aim

Area of different shapes using overloaded functions

Procedure

```
import java.util.*;
class OverloadFunctions
{
   int a,l,b,area,x;
        void area(int x)
        {
                System.out.println("---------------------");
                System.out.println("---------------------");
                System.out.println("The area of the  square     ");
                area = x * x;
                System.out.println();
           System.out.println(+area);
        }
        void area(int x,int y)
        {
                System.out.println("---------------------");
                System.out.println("---------------------");
                System.out.println("The area of the  rectangle   ");
                area =x * y;
                System.out.println();
                System.out.println(+area);
        }
        void area(double x)
        {
                System.out.println("---------------------");
                System.out.println("---------------------");
                System.out.println("The area of the  circle    ");
                double area =3.14 * x * x;
                System.out.println();
                System.out.println(+area);
        }
```

```
}
 public class Overload
{
        public static void main(String args[])
        {
           int a,l,b,r;
                OverloadFunctions ov = new OverloadFunctions();
                Scanner sc = new Scanner(System.in);
           System.out.println("----------------------");
                System.out.println("----------------------");
                System.out.println("----------------------");
           System.out.println("enter the side of the Square :");
                System.out.println();
                a=sc.nextInt();
                System.out.println();
                System.out.println("----------------------");
                System.out.println("enter the length of rectangle :");
                System.out.println();
                l=sc.nextInt();
                System.out.println();
                System.out.println("enter the breath of rectangle :");
                System.out.println();
                b=sc.nextInt();
                System.out.println("----------------------");
                System.out.println("enter the radius of circle :");
                System.out.println();
                r=sc.nextInt();
                ov.area(a);
                ov.area(l,b);
                ov.area(r);
        }
}
```

Output screenshot

```
C:\Users\Student\Documents>javac Overload.java

C:\Users\Student\Documents>java Overload
---------------------
---------------------
---------------------
enter the side of the Square :

3

---------------------
enter the length of rectangle :

2

enter the breath of rectangle :

2
---------------------
enter the radius of circle :

4
---------------------
---------------------
The area of the  square

9
---------------------
---------------------
The area of the  rectangle

4
---------------------
---------------------
The area of the  square

16

C:\Users\Student\Documents>
```