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**Batch:Mca-B**

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**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 10**

**Aim:**

Area of different shapes using overloaded functions

**Program:**

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;

double 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 length of rectangle :");

System.out.println();

b=sc.nextInt();

System.out.println("---------------------");

System.out.println("enter the radius of circle :");

System.out.println();

r=sc.nextDouble();

ov.area(a);

ov.area(l,b);

ov.area(r);

}

}

**OUTPUT:**

