**IV BCAR Lab Programs – JAVA PROGRAMMING**

**Lab Program 2: Java Program to find area of Geometric figures using method Overloading:**

If a [class](https://www.javatpoint.com/object-and-class-in-java) has multiple methods having same name but different in parameters, it is known as **Method Overloading**.

Different ways to overload the method

There are two ways to overload the method in java

1. By changing number of arguments
2. By changing the data type

// Lab program2

class OverloadDemo

{

void area(float x)

{

System.out.println("the area of the square is "+Math.pow(x, 2)+" sq units");

}

void area(float x, float y)

{

System.out.println("the area of the rectangle is "+x\*y+" sq units");

}

void area(double x)

{

double z = 3.14 \* x \* x;

System.out.println("the area of the circle is "+z+" sq units");

}

}

class Prog2Overload

{

public static void main(String args[])

{

OverloadDemo ob = new OverloadDemo();

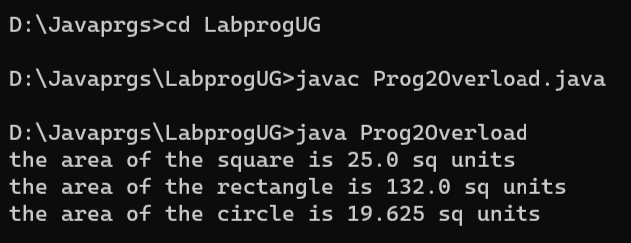
ob.area(5);

ob.area(11,12);

ob.area(2.5);

}

}

****