# Don Bosco Institute of Technology, Kurla Academic Year 2023-24

### **EXPERIMENT NO. 4**

**SEMESTER:III** 

#### **DATE OF PERFORMANCE:**

SUBJECT: Skill based Lab Course: Object Oriented Programming with Java

DATE OF SUBMISSION: NAME OF THE STUDENT:

**ROLL NO.:** 

AIM	Program on method and constructor overloading.  1. Write a program to calculate areas of various shapes such as rectangle, square and circle using method overloading.
LEARNING OBJECTIVE	Implement programs to demonstrate method overloading.
LEARNING OUTCOME	The student will be able to write a program with input and output
COURSE OUTCOME	Students will be able to explain the various Java constructs and will be able to compare classes, objects, packages, arrays and strings.
PROGRAM OUTCOME	PO1,PO2,PO3,PO4,PO5,PO9,PO10,PSO1,PSO2,PSO3.
BLOOM'S TAXONOMY LEVEL	Apply.
THEORY	<ul> <li>What is a Constructor and explain their types?</li> <li>Explain Overloading.</li> <li>Explain overriding</li> </ul>

## Don Bosco Institute of Technology, Kurla Academic Year 2023-24

-	
LAB EXERCISE	Every student will execute the Program as per the instruction and attach output as per the requirements.
	Append all snapshots here.  *Note: correct the program before execution.
	import java.util.*;
	class Area{ void Area(float x)
	<b>{</b>
	System.out.println((x*x)); }
	void Area(double x, double y) {
	System.out.println(x*y);
	<pre>public static void main(String[] args) { Scanner in = new Scanner(System.in);</pre>
	int n, a,b; System.out.println("Enter your choice : ");
	Area p = new Area(); n=in.nextInt();
	switch(n)
	{ 
	System.out.println("Square"); break;
	case 2: p.Area(5.0); System.out.println("Circle");
	case 3: p.Area(5,6);

## Don Bosco Institute of Technology, Kurla Academic Year 2023-24

	System.out.println("Rectangle");	
	}	
	}	
REFERENCES	1. https://www.javatpoint.com/java-oops-concepts	
	2.https://www.geeksforgeeks.org/object-oriented-programming-oops	
	-concept-in-java/	
	3.https://www.javatpoint.com/java-oops-concepts	