



NAME – RAJDEEP JAISWAL DATE – 16 NOV 2021

BRANCH – BTECH CSE SEC = 608 A

UID -20BCS2761

SUB-JAVA Worksheet

1. Aim/Overview of the practical:

Write a program to differentiate between method overloading and method overriding. Method Overloading in Java

If a class has multiple methods having same name but different in parameters, it is known as **Method Overloading**.

Code in Text -

```
// method overloading in Java.
package com.company;
public class pra {

    // Overloaded sum(). This sum takes two int parameters
    public int sum(int x, int y)
    {
        return (x + y);
    }

    // Overloaded sum(). This sum takes three int parameters
    public int sum(int x, int y, int z)
    {
        return (x + y + z);
    }

    // Overloaded sum(). This sum takes two double parameters
    public double sum(double x, double y)
    {
        return (x + y);
    }

    // Driver code
    public static void main(String args[])
    {
        pra s = new pra();
        System.out.println(s.sum(10, 20));
        System.out.println(s.sum(10, 20, 30));
        System.out.println(s.sum(10, 20, 30));
        System.out.println(s.sum(10, 5, 20.5));
    }
}
```







Code in Compiler -

```
First very company of the company of
```

OUTPUT -







Method Overriding in Java

If subclass (child class) has the same method as declared in the parent class, it is known as **method overriding in Java**.

Code in text -

```
// method overloading in Java.
package com.company;
//Creating a parent class.
class Vehicle{
    //defining a method
    void run() {System.out.println("Vehicle is running");}
}
//Creating a child class
class Bike2 extends Vehicle{
    //defining the same method as in the parent class
    void run() {System.out.println("Bike is running safely");}

public static void main(String args[]) {
    Bike2 obj = new Bike2();//creating object
    obj.run();//calling method
    Vehicle obj2 = new Vehicle();
    obj2.run();
}
```







Code in Compiler -

```
FirstjavaprogramRaj > src > com > company > de prajava > de Bike2 > perajava > de Bike2 > perajava > de Codefajava > de Codefa
```

OUTPUT -







Learning out	tcomes (What I hav	e learnt):	
1.		Ι	
2.			
3.			
4.			
5.			
Evaluation Gri	id (To be created as pe	r the SOP and Assessment guidelin	es by the faculty):
Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			