



NAME – RAJDEEP JAISWAL

DATE - 10 Oct 2021

BRANCH – BTECH CSE

SEC = 13 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 -

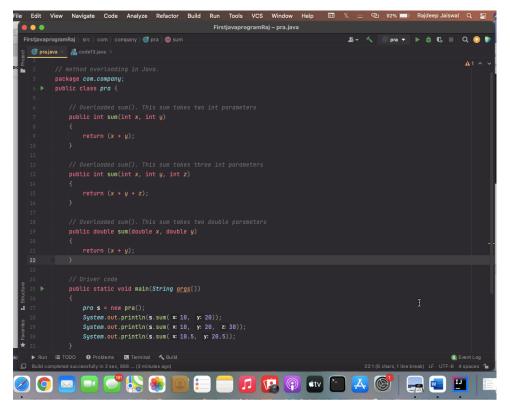
```
/ method overloading in Java.
ackage com.company;
ublic class pra {
    // Overloaded sum(). This sum takes two int parameters
    public int sum(int x, int y)
    {
        return (x + y);
    }
    // Overloaded sum(). This sum takes three int parameters
    public int sum(int x, int y, int z)
    {
        return (x + y + z);
    }
    // Overloaded sum(). This sum takes two double parameters
    public double sum(double x, double y)
    {
        return (x + y + z);
    }
    // Driver code
    public static void main(String args[])
    {
        pra s = new pra();
        System.out.println(s.sum(10, 20, 30));
        System.out.println(s.sum(10, 5, 20.5));
    }
}
```







Code in Compiler -



OUTPUT -

Pg@V









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");}

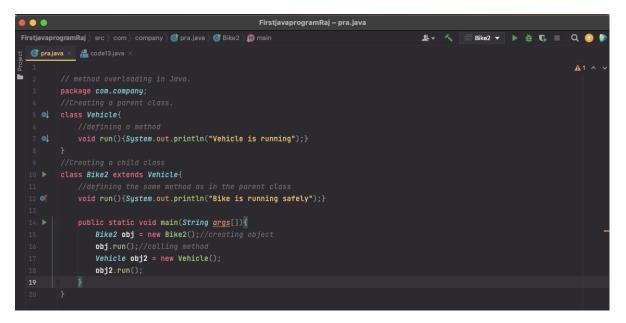
    public static void main(String args[]) {
        Bike2 obj = new Bike2();//creating object
        obj.run();//calling method
        Vehicle obj2 = new Vehicle();
        obj2.run();
    }
```







Code in Compiler -



OUTPUT -





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Learning outcomes (What I have learnt):

- 1. 2. 3. 4.
- 5.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			

