## EXP 4.Program to implement method and constructor overloading

## **Program:**

```
import java.io.*;

public class Methodov
{
    static void sum (int a,int b)
    {
        System.out.println("Sum of 2 Integers is:"+(a+b));
    }
        static void sum (int a,int b,int c)
    {
        System.out.println("Sum of 3 integers is:"+(a+b+c));
        //changing no. of parameters
}
```

```
static void sum (float a,float b)
 {
  System.out.println("Sum of 2 floating point no.s is:"+ (a+b));
  // changing data type of paramters
 public static void main(int a)
  System.out.println("Computing square using main:"+(a*a));
  //Overloading main method
 public Methodov(int a,int b)
  System.out.println("Product of 2 Integers :"+(a*b));
 public Methodov(String x,String y,String z)
  System.out.println(x+" "+y+" "+z); //Overloading constructor
 public static void main(String args[]) throws Exception
     int a=100,b=900,c=890;
     float d =90,e=990;
```

```
String x="constructor",y="got",z="overloaded_here";
     BufferedReader br = new BufferedReader(new
InputStreamReader(System.in));
     System.out.println("*************************
**************
     System.out.printf("\n\n");
    System.out.println("Enter a no. to be squared:");
     int sq = Integer.parseInt(br.readLine());
    System.out.println("***This is an example of Main function getting
overloaded***");
     main(sq);
     System.out.printf("\n");
     System.out.println("***Function 'Sum' got overloaded here***");
     sum(a,b);
     System.out.printf("\n");
     System.out.println("case 1: Changing no. of parameters");
     sum(a,b,c);
     System.out.printf("\n");
```

```
System.out.println("case 2: Changing data type of parameters");
     sum(d,e);
     System.out.printf("\n\n");
    System.out.println("***This is an Example of constructor getting
overloaded***");
    Methodov cons = new Methodov (7,9);
    Methodov cons1 = new Methodov (x,y,z);
     System.out.printf("\n\n");
     System.out.println("*************************
************);
```

## **Output:**

```
Command Prompt
C:\Users\hp\Desktop\Java\Practicals code\exp 4>javac Methodov.java
C:\Users\hp\Desktop\Java\Practicals code\exp 4>java Methodov
*****************
Enter a no. to be squared:
***This is an example of Main function getting overloaded***
Computing square using main:49
***Function 'Sum' got overloaded here***
Sum of 2 Integers is:1000
case 1: Changing no. of parameters
Sum of 3 integers is :1890
case 2: Changing data type of parameters
Sum of 2 floating point no.s is:1080.0
***This is an Example of constructor getting overloaded***
Product of 2 Integers :63
constructor got overloaded_here
```