

## Implement a program on Method & Constructor Overloading

- Method Overloading

```
class OverloadTest
{
    public static void main(String args[])
    {
        OverloadTest o=new OverloadTest();
        o.add(1,4);
        o.add(1.00,2.06);
        o.add(10,12,14);
    }

    void add(int a, int b)
    {
        System.out.println("Sum of a and b is "+(a+b));
    }

    void add(double c, double d)
    {
        System.out.println("Sum of 1.00 and 2.06 is "+(c+d));
    }

    void add(int e, int f, int g)
    {
        System.out.println("Sum of e,f,g is "+(e+f+g));
    }
}
```

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## OUTPUT

```
C:\Users\User.DESKTOP-VK0H6B7\Documents\Java Projects>javac OverloadTest.java

C:\Users\User.DESKTOP-VK0H6B7\Documents\Java Projects>java OverloadTest.java
Sum of a and b is 5
Sum of 1.00 and 2.06 is 3.06
Sum of e,f,g is 36
```

- Constructor Overloading

```
public class Student
{
    //instance variables of the class
    int id;
    String name;

    Student(){
        System.out.println("this a default constructor");
    }

    Student(int i, String n){
        id = i;
        name = n;
    }

    public static void main(String[] args) {
        //object creation
        Student s = new Student();
        System.out.println("\nDefault Constructor values: \n");
        System.out.println("Student Id : "+s.id + "\nStudent Name : "+s.name);
    }
}
```

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```
System.out.println("\nParameterized Constructor values: \n");
Student student = new Student(10, "David");
System.out.println("Student Id : "+student.id + "\nStudent Name : "+student.name);
}
}
```

## OUTPUT

```
C:\Users\User.DESKTOP-VK0H6B7\Documents\Java Projects>javac Student.java
```

```
C:\Users\User.DESKTOP-VK0H6B7\Documents\Java Projects>java Student.java
this a default constructor
```

```
Default Constructor values:
```

```
Student Id : 0
Student Name : null
```

```
Parameterized Constructor values:
```

```
Student Id : 10
Student Name : David
```

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