

Implement a Program on method of constructor overloading

1) 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)
```

```
    {
```

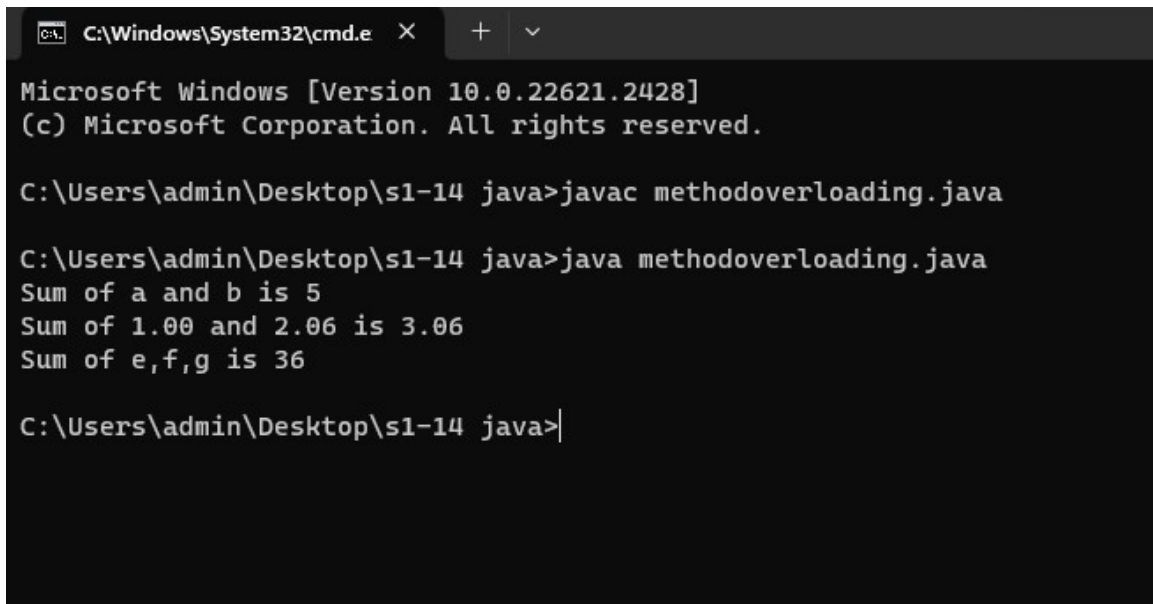
```
        System.out.println("Sum of a and b is "+(a+b));
```

```
    }
```

```
    void add(int 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));  
    }  
}
```



The screenshot shows a Windows command prompt window with the title bar "C:\Windows\System32\cmd.e". The window contains the following text:

```
Microsoft Windows [Version 10.0.22621.2428]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Users\admin\Desktop\s1-14 java>javac methodoverloading.java  
  
C:\Users\admin\Desktop\s1-14 java>java methodoverloading.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  
  
C:\Users\admin\Desktop\s1-14 java>|
```

2) **Constructor Overloading**

```
public class Student {
```

```
    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) {
```

```
        Student s = new Student();
```

```
        System.out.println("\nDefault Constructor values: \n");
```

```
        System.out.println("Student Id : "+s.id + "\nStudent Name : "+s.name);
```

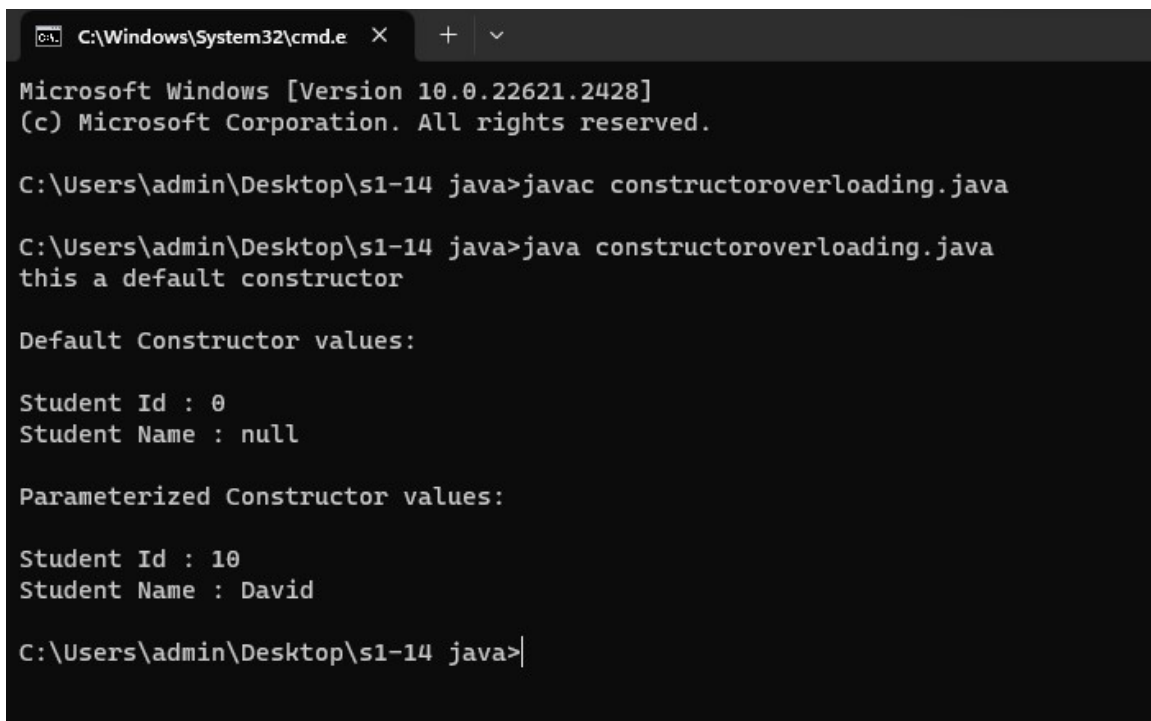
```
System.out.println("\nParameterized Constructor values: \n");

Student student = new Student(10, "David");

System.out.println("Student Id : "+student.id + "\nStudent Name : 
"+student.name);

}

}
```



```
C:\Windows\System32\cmd.e X + v
Microsoft Windows [Version 10.0.22621.2428]
(c) Microsoft Corporation. All rights reserved.

C:\Users\admin\Desktop\s1-14 java>javac constructoroverloading.java

C:\Users\admin\Desktop\s1-14 java>java constructoroverloading.java
this a default constructor

Default Constructor values:

Student Id : 0
Student Name : null

Parameterized Constructor values:

Student Id : 10
Student Name : David

C:\Users\admin\Desktop\s1-14 java>|
```