



Name: Abdul Hasib Zahid

ID: 443058333

Experiment # 3: Design main method in the same class with the concept of constructor overloading.

Write a java program to create a class *Student5* with three instance variables *id* (type *int*), *name* (type *String*), and *age* (type *int*).
Create a first constructor that initialize the values of *id* and *name*.
Create a second constructor that initialize the values of *id*, *name*, and *age*.
Write a method that display the value of *id*, *name*, and *age*.
Write a main method to test your code by creating objects using the two constructors.

Answer:

```
package Experiment3;
```

```
public class Student5 {
```

```
    int id;  
    String name;  
    int age;
```

```
    Student5(int id, String name){  
        this.id = id;  
        this.name = name;  
        this.age = -1;  
    }
```

```
    Student5(int id, String name, int age){  
        this.id = id;  
        this.name = name;  
        this.age = age;  
    }
```

```
    void display(){  
        if(age!=-1)  
            System.out.println("ID: "+id+", Name: "+name+", Age: "+age);  
        else  
            System.out.println("ID: "+id+", Name: "+name+", Age: Not Provided");  
    }  
}
```

```
package Experiment3;
```

```
public class MainTest {
```



```
public static void main(String[] args) {  
    Student5 student1 = new Student5(550, "Zahid");  
    student1.display();  
  
    Student5 student2 = new Student5(220, "Mahjabin",20);  
    student2.display();  
}  
}
```

```
J Student5.java X J MainTest.java  
Practical_OOP > Experiment3 > J Student5.java > Student5 > display()  
1 package Experiment3;  
2  
3 public class Student5 {  
4  
5     int id;  
6     String name;  
7     int age;  
8  
9     Student5(int id, String name){  
10         this.id = id;  
11         this.name = name;  
12         this.age = -1;  
13     }  
14  
15     Student5(int id, String name, int age){  
16         this.id = id;  
17         this.name = name;  
18         this.age = age;  
19     }  
20  
21     void display(){  
22         if(age!=-1)  
23             System.out.println("ID: "+id+", Name: "+name+", Age: "+age);  
24         else  
25             System.out.println("ID: "+id+", Name: "+name+", Age: Not Provided");  
26     }  
27 }
```



```
Student5.java MainTest.java X
Practical_OOP > Experiment3 > MainTest.java > ...
1 package Experiment3;
2
3 public class MainTest {
4     Run | Debug
5     public static void main(String[] args) {
6         Student5 student1 = new Student5(id:550, name:"Zahid");
7         student1.display();
8         Student5 student2 = new Student5(id:220, name:"Mahjabin", age:20);
9         student2.display();
10    }
11 }
12
```

```
ID: 550, Name: Zahid, Age: Not Provided
ID: 220, Name: Mahjabin, Age: 20
PS E:\CS Second Semester>
```