

Problem-01: Write a Program to test Default Constructor.

```
1  package MainDefaultConstructor;
2
3  class Person {
4      private int age;
5      private String name;
6
7      public Person() {
8          System.out.println("Default constructor for Person is called.");
9      }
10
11     public void setAge(int age){
12         this.age=age;
13     }
14
15     public void setName(String name) {
16         this.name=name;
17     }
18
19     public int getAge(){
20         return age;
21     }
22
23     public String getName() {
24         return name;
25     }
26 }
27
28 public class Main{
29     public static void main(String[] args) {
30         Person p1 = new Person();
31
32         p1.setName("Mahfuz");
33         System.out.println("The person name:" + p1.getName());
34
35         p1.setAge(23);
36         System.out.println("The person age:"+ p1.getAge());
37     }
38 }
39
```

Output - Lab\_5 (run) ×

run:  
Default constructor for Person is called.  
The person name:Mahfuz  
The person age:23  
BUILD SUCCESSFUL (total time: 0 seconds)

Problem-02: Write a Program to test Parameterize Constructor.

```
1  package ParameterizeConstructor;
2
3  class Student {
4      private int id;
5      private String dept;
6      public Student(int id){
7          System.out.println("parameterise constructor set a default id:" + id );
8      }
9
10     public void setId(int id){
11         this.id=id;
12     }
13     public int getId(){
14         return id;
15     }
16
17     public void setDept(String dept) {
18         this.dept=dept;
19     }
20     public String getDept() {
21         return dept;
22     }
23
24 }
25
26 public class Main {
27     public static void main(String[] args) {
28         Student s1 = new Student(0);
29
30         s1.setId(241311058);
31         System.out.println("The Student Id:" + s1.getId());
32
33         s1.setDept("CSE");
34         System.out.println("Department:" + s1.getDept());
35     }
36 }
37
```

ParameterizeConstructor.Main > main >

Output - Lab\_5 (run) x

run:  
parameterise constructor set a default id:0  
The Student Id:241311058  
Department:CSE  
BUILD SUCCESSFUL (total time: 0 seconds)

Problem-03: Write a Program to test Encapsulation.

```
1 package Encapsulation;
2
3 class Employee {
4     private int salari;
5     private String position;
6
7     public void setESalari(int salari) {
8         this.salari=salari;
9     }
10    public int getESalai() {
11        return salari;
12    }
13
14    public void setEPosition(String position) {
15        this.position=position;
16    }
17    public String getEPosition() {
18        return position;
19    }
20
21 }
22
23 public class Main {
24     public static void main(String[] args) {
25         Employee E1 = new Employee();
26
27         E1.setEPosition("HR Head");
28         System.out.println("Employee Position: " + E1.getEPosition());
29
30         E1.setESalari(20000);
31         System.out.println("Employee Salari: " + E1.getESalai());
32     }
33 }
34
```

Output - Lab\_5 (run) ×

run:  
Employee Position: HR Head  
Employee Salari: 20000  
BUILD SUCCESSFUL (total time: 0 seconds)