

## Assignment 6

Given example for Marker and functional interface.

```
Employee.java  assignment4.java  assignment5.java  Student.java  functionalinterface.java  Console
1 package Track_Course1;
2 public class Student implements Cloneable{
3     private String name;
4     private int age;
5     private String department;
6     public String getName() {
7         return name;
8     }
9     public void setName(String name) {
10        this.name = name;
11    }
12    public int getAge() {
13        return age;
14    }
15    public void setAge(int age) {
16        this.age = age;
17    }
18    public String getDepartment() {
19        return department;
20    }
21    public void setDepartment(String department) {
22        this.department = department;
23    }
24    public void printDetails() {
25        System.out.println("\nEmployee Name: "+name+"\nAge: "+age+"\nDepartment: "+department);
26    }
27 }
28 public static void main(String[] args) {
29     // TODO Auto-generated method stub
30     /*The class which implements cloneable must
31      * override the clone() coming from parent
32      * object class.[Cloneable,Serializable,Remote <- Marker Interfaces]
33      */
34     System.out.println("Cloning");
35     Student e = new Student();
36     e.setName("Satya");
37     e.setAge(22);
38     e.setDepartment("Computer science and Engineering");
39     e.printDetails();
40     try {
41         Student cloned = (Student) e.clone(); // it creates a copy of the original object
42         cloned.printDetails();
43     }
44     catch(CloneNotSupportedException e1){
45         e1.printStackTrace();
46     }
47     System.out.println("Finished cloning test");
48 }
49 }
50 }
51 }
```

<terminated> Student [Java Application] C:\Program Files\Cloning

Employee Name: Satya  
Age: 22  
Department: Computer science and Engineering

Employee Name: Satya  
Age: 22  
Department: Computer science and Engineering  
Finished cloning test

```
Employee.java  assignment4.java  assignment5.java  Student.java  *functionalinterface.java  Console
1 package Track_Course1;
2
3 interface Driveable{
4     default void drive() {
5         System.out.println("Drive safely at 120kmph");
6     }
7 }
8 @FunctionalInterface
9 interface safely extends Driveable{
10     void safely(String msg);
11 }
12
13 public class functionalinterface implements safely {
14     public void safely(String msg) {
15         System.out.println(msg);
16     }
17 }
18
19 public static void main(String[] args) {
20     functionalinterface f = new functionalinterface();
21     f.safely("you should");
22     f.drive();
23 }
24 }
25 }
```

<terminated> functionalinterface [Java Ap  
you should  
Drive safely at 120kmph