

Practical 04

Exercise 01:

```
package com.mycompany.employeeetest;

public class EmployeeTest
{
    public static void main(String[] args)
    {
        Employee mrBogdon=new Employee();
        Employee mrBird=new Employee();

        mrBogdon.setEmpID(1001);
        mrBogdon.setEmpName("Mr.Bogdon");
        mrBogdon.setEmpDesignation("Web Developer");

        mrBird.setEmpID(1002);
        mrBird.setEmpName("Mr.Bird");
        mrBird.setEmpDesignation("Fullstack Developer");

        System.out.println("Employee ID: "+mrBogdon.getEmpID());
        System.out.println("Employee Name: "+mrBogdon.getEmpName());
        System.out.println("Employee Designation:
"+mrBogdon.getEmpDesignation());

        System.out.println("\nEmployee ID: "+mrBird.getEmpID());
```

```
        System.out.println("Employee Name: "+mrBird.getEmpName());
        System.out.println("Employee Designation: "+mrBird.getEmpDesignation());
    }
}

package com.mycompany.employeeetest;

public class Empolyee
{
    private int empID;
    private String empName;
    private String empDesignation;
    public int getEmpID()
    {
        return empID;
    }
    public void setEmpID(int empID)
    {
        this.empID=empID;
    }
    public String getEmpName()
    {
        return empName;
    }
    public void setEmpName(String empName)
    {
        this.empID=empID;
```

```
}  
    public String getEmpDesignation()  
    {  
        return empDesignation;  
    }  
    public void setEmpDesignation(String empDesignation)  
    {  
        this.empDesignation=empDesignation;  
    }  
}
```

Exercise 02:

Output :

9

6

Class SuperB

- This class represents a superclass containing four methods: setIt, increase, triple, and returnIt.
- The instance variable x's value is set with the setIt method.
- The increase method increases the value of x by 1.
- The value of x is multiplied by three using the triple method.
- The returnIt method returns the current value of x.

class SubC extends SuperB

- In order to become a subclass of SuperB, this class extends the SuperB class.
- Instead of multiplying x by 3, it adds 3 to the x value instead of using the triple function from the superclass.
- Additionally, it adds a new method called quadruple, which multiplies the value of x by 4.

public class TestInheritance

- This class has the main method where the behavior of inheritance is tested.
- In the beginning, it creates a SuperB instance called b.
- Using the setIt method, it initializes b to 2 in this case.
- Following that, it increases b's value by 1, making x equal to 3.
- The triple method is then used to triple the value of b, so x becomes 9.
- Finally, using the returnIt method, it prints the current value of b. then it makes a SubC instance with the name c.
- Using the setIt method, it initializes c to the value 2.
- Then it uses the increase method to increase the C value by 1, so x becomes .
- Then, using the triple method, which is overridden in the SubC class, it triples the value of c, so x becomes 6.
- Using the returned method, it prints the current value of C.

Exercise 03:

Exercise 04:

Output:

true

true

true

