**Practical 04**

Exercise 01:

package com.mycompany.employeetest;

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.employeetest;

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