

## **Lab Sheet 04**

01. public class Employee

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

```
        public String getEmpDesignation()
        {
            return empDesignation;
        }
    }

    public class Test1
    {
        public static void main(String[] args)
        {
            Employee bogdan=new Employee();
            bogdan.setEmpID(001);
            bogdan.setEmpName("Bogdan");
            bogdan.setEmpDesignation("Lecturer");
            System.out.println("Employee ID: "+bogdan.getEmpID());
            System.out.println("Employee Name: "+bogdan.getEmpName());
            System.out.println("Employee Designation: "+bogdan.getEmpDesignation()+"\n");

            Employee bird=new Employee();
            bird.setEmpID(002);
            bird.setEmpName("Bird");
            bird.setEmpDesignation("Lecturer");
            System.out.println("Employee ID: "+bird.getEmpID());
            System.out.println("Employee Name: "+bird.getEmpName());
            System.out.println("Employee Designation: "+bird.getEmpDesignation());
        }
    }
}
```

02. class SuperB

```
{  
    int x;  
    void setIt (int n)  
    {  
        x=n;  
    }  
    void increase ()  
    {  
        x=x+1;  
    }  
    void triple ()  
    {  
        x=x*3;  
    }  
    int returnIt ()  
    {  
        return x;  
    }  
}
```

class SubC extends SuperB

```
{  
    void triple () {x=x+3;} // override existing method  
    void quadruple () {x=x*4;} // new method  
}
```

```
public class TestInheritance
{
    public static void main(String[] args)
    {
        SuperB b = new SuperB();
        b.setIt(2);
        b.increase();
        b.triple();
        System.out.println( b.returnIt() );
        SubC c = new SubC();
        c.setIt(2);
        c.increase();
        c.triple();
        System.out.println( c.returnIt() );
    }
}
```

Result – 9

6