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#### LAB 4

```
1. class Employee {  
  
    private int empID;  
  
    private String empName;  
    private String empDesignation;  
  
    public void setEmpID(int empID) {  
        this.empID = empID;  
    }  
  
    public int getEmpID() {  
        return empID;  
    }  
  
    public void setEmpName(String empName) {  
        this.empName = empName;  
    }  
  
    public String getEmpName() {  
        return empName;  
    }  
  
    public void setEmpDesignation(String empDesignation) {  
        this.empDesignation = empDesignation;  
    }  
  
    public String getEmpDesignation() {  
        return empDesignation;  
    }  
}  
  
class TestEmployee {  
  
    public static void main(String[] args) {
```

```

Employee employee1 = new Employee();
employee1.setEmpID(1001);
employee1.setEmpName("Mr.Bogdan");
employee1.setEmpDesignation("Software Engineer");

Employee employee2 = new Employee();
employee2.setEmpID(1002);
employee2.setEmpName("Ms.Bird");
employee2.setEmpDesignation("Data Scientist");

System.out.println("Employee 1 Details:");
System.out.println("Employee ID: " + employee1.getEmpID());
System.out.println("Employee Name: " + employee1.getEmpName());
System.out.println("Employee Designation: " + employee1.getEmpDesignation());

System.out.println("\nEmployee 2 Details:");
System.out.println("Employee ID: " + employee2.getEmpID());
System.out.println("Employee Name: " + employee2.getEmpName());
System.out.println("Employee Designation: " + employee2.getEmpDesignation());
}
}

```

2.

```

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()); // Prints 9

        SubC c = new SubC();
    }
}

```

```
        c.setIt(2);  
        c.increase();  
        c.triple();  
        System.out.println(c.returnIt()); // Prints 11  
    }  
}
```