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Lab04

Exercise 01:

```
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(1);
        employee1.setEmpName("Bogdan");
        employee1.setEmpDesignation("Developer");

        Employee employee2 = new Employee();
        employee2.setEmpID(2);
        employee2.setEmpName("Bird");
        employee2.setEmpDesignation("Tester");

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

Exercise 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()); // prints 9
```

```
SubC c = new SubC();
```

```
c.setIt(2);
```

```
c.increase();
```

```
c.triple();
```

```
c.quadruple();
```

```
System.out.println(c.returnIt()); // prints 17
```

```
}  
}
```