

Lab sheet 4

Exercise 01:

Employee class

```
package com.mycompany.testemployee;

public class employee
{
    private int empID;
    private String empName;
    private String empDesignation;

    // Getter and Setter for empID
    public int getEmpID()
    {
        return empID;
    }

    public void setEmpID(int empID)
    {
        this.empID = empID;
    }

    // Getter and Setter for empName
    public String getEmpName()
    {
        return empName;
    }

    public void setEmpName(String empName)
```

```
{
    this.empName = empName;
}

// Getter and Setter for empDesignation
public String getEmpDesignation()
{
    return empDesignation;
}

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

TestEmployee (MAIN)

```
package com.mycompany.testemployee;

public class TestEmployee
{
    public static void main(String[] args)
    {
        employee mrBogdan = new employee();
        employee msBird = new employee();

        mrBogdan.setEmpID(101);
        mrBogdan.setEmpName("Bogdan");
        mrBogdan.setEmpDesignation("Software Engineer");
    }
}
```

```
msBird.setEmpID(102);

msBird.setEmpName("Bird");

msBird.setEmpDesignation("Project Manager");


System.out.println("Mr. Bogdan Details:");

System.out.println("Employee ID: " + mrBogdan.getEmpID());

System.out.println("Employee Name: " + mrBogdan.getEmpName());

System.out.println("Employee Designation: " + mrBogdan.getEmpDesignation());


System.out.println("\nMs. Bird Details:");

System.out.println("Employee ID: " + msBird.getEmpID());

System.out.println("Employee Name: " + msBird.getEmpName());

System.out.println("Employee Designation: " + msBird.getEmpDesignation());

}

}
```

Exercise 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() );
```

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

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

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

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

```
System.out.println( c.returnIt() ); }
```

```
}
```