Exercise 01:

Create a class called "Employee" which has 3 private variables (empID, empName, empDesignation) and create getters and setters for each field. Please note that this has no main method since this is just a blueprint not a application. Now crate a test class to invoke the Employee class. Create two objects for Mr.Bogdan and Ms.Bird and set required values using setters and print them back on the console using getters.

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

```
}
  public String getEmpDesignation() {
    return empDesignation;
 }
  public void setEmpDesignation(String empDesignation) {
    this.empDesignation = empDesignation;
 }
}
class Main {
  public static void main(String[] args) {
    Employee e1 = new Employee();
    e1.setEmpID(1);
    e1.setEmpName("John Doe");
    e1.setEmpDesignation("Software Engineer");
    System.out.println("Employee ID: " + e1.getEmpID());
    System.out.println("Employee Name: " + e1.getEmpName());
    System.out.println("Employee Designation: " + e1.getEmpDesignation());
 }
}
```

Exercise 02:

Develop the following class execute and discuss the answer: Please note that each class stored in separate files. Write down the answer.

```
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() ); }
```

```
Practical 04: Encapsulation & Inheritance
```

}

print out: 9 6