LAB SHEET 04 : ENCAPSULATION & INHERITANCE – ANSWERS

Exercise 01:

```
class Employee {
    private int empID;
    private String empName;
    private String empDesignation;

    // Getters
    public int getEmpID() {
        return empID;
    }

    public String getEmpName() {
        return empName;
    }

    public String getEmpDesignation() {
        return empDesignation;
    }

    // Setters
    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 class EmployeeTest {
    public static void main(String[] args) {
        // Creating objects for Mr. Bogdan and Ms. Bird
        Employee mrBogdan = new Employee();
        Employee msBird = new Employee();

        // Setting values using setters
        mrBogdan.setEmpID(12);
        mrBogdan.setEmpName("Mr. Bogdan");
        mrBogdan.setEmpDesignation("Network Engineer");

        msBird.setEmpID(14);
```

```
        msBird.setEmpName("Ms. Bird");
        msBird.setEmpDesignation("Finance Manager");

        // Printing values using getters
        System.out.println("Mr. Bogdan's 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's Details:");
        System.out.println("Employee ID: " + msBird.getEmpID());
        System.out.println("Employee Name: " + msBird.getEmpName());
        System.out.println("Employee Designation: " + msBird.getEmpDesignation());
    }
}
```

Exercise 02:

The Output is:

9

6