Practical 04

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01.

```
// Employee class class Employee
{ private int empID; private
String empName; private String
empDesignation;
  // Getters and setters for empID
public int getEmpID() {
                          return
empID;
  }
  public void setEmpID(int empID) {
this.empID = empID;
  }
  // Getters and setters for empName
public String getEmpName() {
return empName;
  }
```

```
public void setEmpName(String empName) {
                                                 this.empName = empName;
  }
  // Getters and setters for empDesignation
public String getEmpDesignation() {
return empDesignation;
  }
  public void setEmpDesignation(String empDesignation) {
this.empDesignation = empDesignation;
 }
}
// Test class to invoke the Employee class
public class EmployeeTest {    public
static void main(String[] args) {
                                 //
Creating two Employee objects
    Employee mrBogdan = new Employee();
    Employee msBird = new Employee();
    // Setting values for Mr. Janas using setters
mrJanas.setEmpID(101);
                            mrJanas.setEmpName("Mr.
Janas");
            mrJanas.setEmpDesignation("Software
Engineer");
```

```
// Setting values for Ms. Suni using setters
msSuni.setEmpID(102);
                           msSuni.setEmpName("Ms. Suni");
msSuni.setEmpDesignation("Data Scientist");
    // Printing the details of Mr.Janas using getters
    System.out.println("Employee ID: " + mrJans.getEmpID());
    System.out.println("Employee Name: " + mrJanas.getEmpName());
    System.out.println("Employee Designation: " + mrJanas.getEmpDesignation());
    // Printing the details of Ms. Suni using getters
    System.out.println("\nEmployee ID: " + msSuni.getEmpID());
    System.out.println("Employee Name: " + msSuni.getEmpName());
    System.out.println("Employee Designation: " + msSuni.getEmpDesignation());
 }
}
03.
Person class (Superclass):
class Person {    private
String name;
  private int id;
```

```
// Constructor for Person public
Person(String name, int id) {
this.name = name;
    this.id = id;
  }
  // Getters and setters for name and id
public String getName() {
                              return
name;
  }
  public void setName(String name) {
this.name = name;
  }
  public int getID() {
return id;
  }
  public void setID(int id) {
    this.id = id;
  }
}
```

Student

```
class Student extends Person {
private String course;
 // Constructor for Student public Student(String
this.course = course;
 }
 // Getter and setter for course
public String getCourse() {
return course;
 }
 public void setCourse(String course) {
this.course = course;
 }
}
Lecturer
class Lecturer extends Person {
private String programme;
```

```
// Constructor for Lecturer public Lecturer(String
name, int id, String programme) {
                                    super(name, id);
    this.programme = programme;
  }
 // Getter and setter for programme
public String getProgramme() {
return programme;
  }
  public void setProgramme(String programme) {
this.programme = programme;
 }}
Student and Lecturer classes by creating one object of each:
public class TestPerson {    public static
void main(String[] args) {
    // Creating a Student object
    Student student = new Student("Sara", 101, "Computer Science");
    System.out.println("Student Name: " + student.getName());
    System.out.println("Student ID: " + student.getID());
    System.out.println("Student Course: " + student.getCourse());
    // Creating a Lecturer object
```

```
Lecturer lecturer = new Lecturer("Janith ", 201, "Mathematics");

System.out.println("\nLecturer Name: " + lecturer.getName());

System.out.println("Lecturer ID: " + lecturer.getID());

System.out.println("Lecturer Programme: " + lecturer.getProgramme());
}
```