Practical 04: Encapsulation & Inheritance

Exercise 01:

public class Employee {

private int empId;

private String empName,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;

}

}

public class TestEmployee {

public static void main(String[] args) {

Employee mrBogdan=new Employee();

Employee mrBird=new Employee();

mrBogdan.setEmpName("Mr.Bogdan");

mrBogdan.setEmpId(10);

mrBogdan.setEmpDesignation("Manager");

mrBird.setEmpName("Mr.Bird");

mrBird.setEmpId(21);

mrBird.setEmpDesignation("Supervisor");

System.out.println("Name: "+mrBogdan.getEmpName()+ " Employee Id: "+mrBogdan.getEmpId()+ " Employee Designation: "+mrBogdan.getEmpDesignation());

System.out.println("Name: "+mrBird.getEmpName()+ " Employee Id: "+mrBird.getEmpId()+ " Employee Designation: "+mrBird.getEmpDesignation());

}

}

Exercise 02:

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Exercise 03:

public class Person {

private int id;

private String name;

public void setId(int id)

{

this.id=id;

}

public int getId()

{

return id;

}

public void setName(String name)

{

this.name=name;

}

public String getName()

{

return name;

}

}

public class Student extends Person {

private String course;

public void setCourse(String course)

{

this.course=course;

}

public String getCourse()

{

return course;

}

}

public class Lecturer extends Person {

private String programme;

public void setProgramme(String programme)

{

this.programme=programme;

}

public String getProgramme()

{

return programme;

}

}

public class PersonObj {

public static void main(String[] args) {

Student s1=new Student();

s1.setName("Menuka");

s1.setId(28816);

s1.setCourse("Computer Networks");

Lecturer l1=new Lecturer();

l1.setName("Lal");

l1.setId(1234);

l1.setProgramme("Java");

System.out.println("Student name: "+s1.getName()+ " Student ID: "+s1.getId()+ " Student Course: "+s1.getCourse());

System.out.println("Lecturer name: "+l1.getName()+ " Lecturer ID: "+l1.getId()+ " Lecturer Programme: "+l1.getProgramme());

}

}

Exercise 04

true

true

true