Name: N D A Pinsara

I D :28532

LAB 5

public class Person {

protected String name;

protected String id;

public Person(String name, String id) {

this.name = name;

this.id = id;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getId() {

return id;

}

public void setId(String id) {

this.id = id;

}

}

public class Lecturer extends Person {

private String prog;

public Lecturer(String name, String id, String prog) {

super(name, id);

this.prog = prog;

}

public String getProg() {

return prog;

}

public void setProg(String prog) {

this.prog = prog;

}

}

public class Student extends Person {

private String course;

public Student(String name, String id, String course) {

super(name, id);

this.course = course;

}

public String getCourse() {

return course;

}

public void setCourse(String course) {

this.course = course;

}

}

public class Test {

public static void main(String[] args) {

Lecturer lecturer = new Lecturer("Dr. Smith", "123456789", "Computer Science");

System.out.println(lecturer.getName() + " is a lecturer in " + lecturer.getProg());

Student student = new Student("John Doe", "987654321", "Computer Science");

System.out.println(student.getName() + " is studying " + student.getCourse());

}

}

2.

public class Animal {

}

public class Mammal extends Animal {

}

public class Reptile extends Animal {

}

public class Dog extends Mammal {

public static void main(String[] args) {

Animal a = new Animal();

Mammal m = new Mammal();

Dog d = new Dog();

System.out.println(m instanceof Animal); // true

System.out.println(d instanceof Mammal); // true

System.out.println(d instanceof Animal); // true

}

}