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LAB 5
    1.
  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
  }
}
```