Exercise 01:

Recall the following scenario discussed during the class. Develop a code base to represent the scenario. Add a test class to invoke Lecturer and Student class by creating atleast one object from each.

Note: All the common attributes and behavior stored in the super class and only the specific fields and behavior stored in subclasses.

|  |
| --- |
| Student |
| * name |
| * id |
| * course |
| + setName()/getName() |
| + setID()/getID() |
| + setCourse()/getCourse() |

|  |
| --- |
| Lecturer |
| * name |
| * id |
| * programme |
| + setName()/getName() |
| + setID()/getID() |
| + setProg()/getProg() |

|  |
| --- |
| Person |
| Identify field and attributes to be stored in this class |

Exercise 02

Develop the following class execute and discuss the answer: Please note that each public class stored in separate files. Write down the answer.

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);

System.out.println(d instanceof Mammal);

System.out.println(d instanceof Animal);

}

}

Output

/\*

true

true

true

The Mammal class is a subclass of Animal,

The Reptile class is another subclass of Animal,

The Dog class is a subclass of Mammal, In the main method of the Dog class, three objects are created: a, m, and d.\*/