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

```
package com.mycompany.labsheet;

public class TestPerson {

   public static void main(String[] args)

{

      Student student = new Student("mehara", "5201", "Manegement");

      System.out.println("Student Information:");

      System.out.println("Name: " +student.getName());

      System.out.println("ID: " +student.getId());

      System.out.println("Course: "+student.getCourse());



      Lecturer lecturer = new Lecturer("Gihan", "201", "Business studies");

      System.out.println("Lecturer Information:");

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

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

Person……..

```
package com.mycompany.labsheet;
public class Person {
    private String name;
    private int id;
    public Person(String name, int id)
    {
        this.name = name;
        this.id = id;
    }
    public String getName() {
        return name;
    }
    public int getId() {
```

```
        return id;
    }
    public void setName(String name) {
        this.name = name;
    }
    public void setId(int id) {
        this.id = id;
    }
}
```

Extends……

```
package com.mycompany.labsheet;
public class Student extends Person
{
    private String course;
    public Student(String name, int id, String course) {
        super(name, id);
        this.course = course;
    }
```

```
    public String getCourse() {
        return course;
    }
    public void setCourse(String course) {
        this.course = course;
    }
}
```

Extends….

```
package com.mycompany.labsheet;
public class Lecturer extends Person
{
    private String programme;
    public Lecturer(String name, int id, String programme) {
        super(name, id);
        this.programme = programme;
    }
    public String getProgramme() {
        return programme;
```

```
    }

    public void setProgramme(String programme) {

        this.programme = programme;

    }

}
```