

Exercise 01:

//Identifying same attr and creating a Person Class

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

//Creating Student Class

```
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;
```

```
    }
```

```
}
```

```
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;  
    }  
}
```

```
public class mainTest {  
    public static void main(String[] args) {  
        Student student = new Student("Sajeeth",28026, "Data Science");  
        System.out.println("Student Name: " + student.getName());  
        System.out.println("Student ID: " + student.getID());  
        System.out.println("Student Course: " + student.getCourse());  
  
        Lecturer lecturer = new Lecturer("Mr. Shafraz Sir", 20021, "OOP_Java");  
  
        System.out.println("Lecturer Name: " + lecturer.getName());  
        System.out.println("Lecturer ID: " + lecturer.getID());  
        System.out.println("Lecturer Programme: " + lecturer.getProgramme());  
    }  
}
```