Lab Sheet 05

01.
```java
public class Person
    {
        private String name;
        private int id;
        public void setName(String name)
        {
            this.name=name;
        }
        public void setId(int id)
        {
            this.id=id;
        }
        public String getName()
        {
            return name;
        }
        public int getId()
        {
            return id;
        }
    }
```

```java
public class Student extends Person
{
        private String course;
        public void setCourse(String course)
        {
                this.course=course;
        }
        public String getCourse()
        {
                return course;
        }
}
public class Lecturer extends Person
{
        private String programme;
        public void setProgramme(String programme)
        {
                this.programme=programme;
         }
        public String getProgramme()
        {
                return programme;
        }
}
```

```java
public class Test
{
    public static void main(String[] args)
    {
        Student s1=new Student();
        s1.setName("Anne");
        s1.setId(0001);
        s1.setCourse("Networking");
        System.out.println("Student Name: "+s1.getName());
        System.out.println("Student ID: "+s1.getId());
        System.out.println("Student Course: "+s1.getCourse()+"\n");

        Lecturer l1=new Lecturer();
        l1.setName("Mr.Perera");
        l1.setId(001);
        l1.setProgramme("Networking and Security");
        System.out.println("Lecturer Name: "+l1.getName());
        System.out.println("Lecturer ID: "+l1.getId());
        System.out.println("Lecturer Programme: "+l1.getProgramme());
    }
}
```

```java
02. 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(a instanceof Animal);
                System.out.println(m instanceof Mammal);
                System.out.println(d instanceof Animal);
        }
    }
```