

## Labsheet 05

01)

```
package com.mycompany.personobj;
public class Person
{
    private String name;
    private int id;

    //setter method
    public void setName(String name)
    {
        this.name=name;
    }
    public void setID(int id )
    {
        this.id=id;
    }

    //getter method
    public String getName()
    {
        return name;
    }
    public int getid()
    {
        return id;
    }
}

public class Student extends Person
{
    private String course;

    //setter method
    public void setCourse(String course)
    {
        this.course=course;
    }

    //getter method
```

```
    public String getCourse()
    {
        return course;
    }
}
```

```
public class Lecturer extends Person
{
    private String programme;

    //setter method
    public void setProgramme(String programme)
    {
        this.programme=programme;
    }

    //getter method
    public String getProgramme()
    {
        return programme;
    }
}
```

```
public class PersonObj
{

    public static void main(String[] args)
    {
        Student s1=new Student();
        s1.setID(123);
        s1.setName("Methma");
        s1.setCourse("Computer Networks");
        System.out.println(" "+s1.getid());
        System.out.println(" "+s1.getName());
        System.out.println(" "+s1.getCourse());

        Lecturer l1=new Lecturer();
        l1.setID(1000);
        l1.setName("John");
        l1.setProgramme("Networking and Security");
        System.out.println(" "+l1.getid());
    }
}
```

```
        System.out.println(" "+l1.getName());
        System.out.println(" "+l1.getProgramme());
    }
}
```

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);
    }
}
```