

[LAB PROGRAM 6]

```
package CIE;
```

```
public class Student {
```

```
    protected String usn, name;
```

```
    protected int sem;
```

```
    public Student (String id, String n, int s) {
```

```
        usn = id;
```

```
        name = n;
```

```
        sem = s;
```

```
    }
```

```
}
```

```
package CIE;
```

```
public class Internals extends Student {
```

```
    private int[] cie = new int[5];
```

```
    public Internals (String id, String n, int s, int[] marks) {
```

```
        super (id, n, s);
```

```
        for (int i = 0; i < 5; i++)
```

```
            cie[i] = marks[i];
```

```
    }
```

```
    public void display1() {
```

```
        System.out.println ("ID: " + usn + " Name: " + name + " Sem: " + sem);
```

```
        System.out.println ("Cie marks:");
```

```
        for (int i = 0; i < 5; i++)
```

```
            System.out.println ("Subject " + (i+1) + " : " + cie[i]);
```

```
    }
```

```
}
```

```
package - SEE;
```

```
import CIE.Student;
```

```
public class Externals extends Student {
```

```
    private int[] see = new int[5];
```

```
    public Externals (String id, String n, int s, int[] marks2) {
```

```
        super (id, n, s);
```

```
        for (int i = 0; i < 5; i++)
```

```
            see[i] = marks2[i];
```

```
    }
```

```
    public void display2() {
```

```
        for (int i = 0; i < 5; i++)
```

```
            System.out.println ("Subject " + (i+1) + " : " + see[i]);
```

```
    }
```

```
}
```

```

import CIE.*;
import SEE.*;
import java.util.Scanner;

```

```

public class StudentDriver {

```

```

    public static void main (String args[]) {

```

```

        int[] m1 = new int[5];

```

```

        int[] m2 = new int[5];

```

```

        Scanner sc = new Scanner(System.in);

```

```

        int c,s,i,j;

```

```

        String id,n;

```

```

        System.out.print("How many student details do you  
want to enter?");

```

```

        c = sc.nextInt();

```

```

        External[] ex = new External[c];

```

```

        Internal[] in = new Internal[c];

```

```

        for (i=0; i<c; i++) {

```

```

            System.out.println("--- Student " + (i+1) + " ---");

```

```

            System.out.print("Enter student ID:");

```

```

            id = sc.next();

```

```

            System.out.print("Enter student name:");

```

```

            n = sc.next();

```

```

            System.out.print("Enter student semester:");

```

```

            s = sc.nextInt();

```

```

            System.out.println("In --- SEE marks: ---");

```

```

            for (j=0; j<5; j++) {

```

```

                System.out.print("Enter CIE marks in subject " + (j+1) + ":");

```

```

                m1[j] = sc.nextInt();

```

```

            }
            System.out.println("SEE marks: ---");

```

```

            for (j=0; j<5; j++) {

```

```

                System.out.print("Enter SEE marks in subject " + (j+1) + ":");

```

```

                m2[j] = sc.nextInt();

```

```

            }

```

```

            System.out.println();

```

```

            ex[i] = new External(id,n,s,m2);

```

```

            in[i] = new Internal(id,n,s,m1);

```

```

        }

```

```

        for (i=0; i<c; i++) {

```

```

            System.out.println("--- Student " + (i+1) + " ---");

```

```

            in[i].display1();

```

```

            System.out.println("SEE marks:");

```

```

            ex[i].display2();

```