

Code:

```
1 package CIE;
2
3 public class Student{
4     protected String usn,name;
5     protected int sem;
6     public Student(String id,String n,int s){
7         usn = id;
8         name = n;
9         sem = s;
10    }
11 }
```

```
1 package CIE;
2
3 public class Internals extends Student{
4     private int[] cie = new int[5];
5     public Internals(String id,String n,int s,int[] marks1){
6         super(id,n,s);
7         for(int i=0;i<5;i++){
8             cie[i] = marks1[i];
9         }
10    public void display1(){
11        System.out.println("ID: "+usn+" Name: "+name+" Sem: "+sem);
12        System.out.println("Cie marks:");
13        for(int i=0;i<5;i++){
14            System.out.println("Subject "+(i+1)+" : "+cie[i]);
15        }
16    }
```

```
1 package SEE;
2 import CIE.Student;
3
4 public class Externals extends Student{
5     private int[] see = new int[5];
6     public Externals(String id,String n,int s,int[] marks2){
7         super(id,n,s);
8         for(int i=0;i<5;i++){
9             see[i] = marks2[i];
10        }
11    public void display2(){
12        for(int i=0;i<5;i++){
13            System.out.println("Subject "+(i+1)+" : "+see[i]);
14        }
15    }
16 }
```

```

5  import java.util.Scanner;
6
7  public class StudentDriver{
8      public static void main(String args[]){
9          int[] m1 = new int[5];
10         int[] m2 = new int[5];
11         Scanner sc = new Scanner(System.in);
12         int c,s,i,j;
13         String id,n;
14         System.out.print("How many Student details do you want to enter?: ");
15         c = sc.nextInt();
16         Externals[] ex = new Externals[c];
17         Internals[] in = new Internals[c];
18         for(i=0;i<c;i++){
19             System.out.println("---STUDENT "+(i+1)+"---");
20             System.out.print("Enter Student ID:");
21             id = sc.next();
22             System.out.print("Enter Student Name:");
23             n = sc.next();
24             System.out.print("Enter Student Semester:");
25             s = sc.nextInt();
26             System.out.println("\n---CIE MARKS:---");
27             for(j=0;j<5;j++){
28                 System.out.print("Enter cie marks in subject "+(j+1)+": ");
29                 m1[j] = sc.nextInt();
30             }
31             System.out.println("\n---SEE MARKS:---");
32             for(j=0;j<5;j++){
33                 System.out.print("Enter see marks in subject "+(j+1)+": ");
34                 m2[j] = sc.nextInt();
35             }
36             System.out.println();
37             ex[i] = new Externals(id,n,s,m2);
38             in[i] = new Internals(id,n,s,m1);
39         }
40         for(i=0;i<c;i++){
41             System.out.println("---Student "+(i+1)+"---");
42             in[i].display1();
43             System.out.println("See marks:");
44             ex[i].display2();
45         }
46     }
47 }
48

```

Output:

```
Process started (PID=10864) >>>
How many Student details do you want to enter?: 1
---STUDENT 1---
Enter Student ID:123ABC
Enter Student Name:Stud1
Enter Student Semester:3

---CIE MARKS:---
Enter cie marks in subject 1: 47
Enter cie marks in subject 2: 46
Enter cie marks in subject 3: 45
Enter cie marks in subject 4: 47
Enter cie marks in subject 5: 48

---SEE MARKS:---
Enter see marks in subject 1: 78
Enter see marks in subject 2: 77
Enter see marks in subject 3: 89
Enter see marks in subject 4: 90
Enter see marks in subject 5: 92

---Student 1---
ID: 123ABC Name: Stud1 Sem: 3
Cie marks:
Subject 1 : 47
Subject 2 : 46
Subject 3 : 45
Subject 4 : 47
Subject 5 : 48
See marks:
Subject 1 : 78
Subject 2 : 77
Subject 3 : 89
Subject 4 : 90
Subject 5 : 92
<<< Process finished (PID=10864). (Exit code 0)
===== READY =====
```