

Create a package CIE which has two classes- Student and Internals- a subclass of Student. The class Student has members like usn, name, sem. The class Internals has an array that stores the internal marks scored in five courses of the current semester of the student. Create another package SEE which has the class External which is a derived class of Internals. This class has an array that stores the SEE marks scored in five courses of the current semester of the student. Import the two packages in a file that declares the final marks of n students in all five courses.

8. Create a package CIE which has two classes- Student & Internals. The class Student has members like usn, name, sem. The class Internals has an array that stores the internal marks scored in five courses of the current semester of the student. Create another package SEE which has the class External which is a derived class of Internals. This class has an array that stores the SEE marks scored in five courses of the current semester of the student. Import the two packages in a file that declares the final marks of n students in all five courses.

```

→ package cie;
import java.util.*; scanner;

public class student {
    public String name = new String ();
    public String usn = new String ();
    public int sem;
    public student () {
    }
    public void set () {
        Scanner ss = new Scanner (System.in);
        System.out.println ("Enter usn, name and sem");
        usn = ss.next ();
        name = ss.next ();
        sem = ss.nextInt ();
    }
}

```

```

public
    System.out.println("ID no. " + id);
    System.out.println("Name: " + name);
    System.out.println("Semester: " + sem);
}

// Scanner class
import java.util.Scanner;

public class Internals extends Student {
    public int marks[] = new int[5];

    public Internals() {
    }

    public void setmarks() {
        Scanner sc = new Scanner(System.in);
        for (int i = 0; i < 5; i++) {
            System.out.println("Enter " + (i + 1) +
                "subject's internal marks (out of 50)");
            marks[i] = sc.nextInt();
        }
    }
}

// Main class
public class Main {
    public static void main(String[] args) {
        Internals obj = new Internals();
        obj.setmarks();
    }
}

```

```

public class External extends CIE.External {
    public int secmarks[] = new int[5];
    public External() {
        public void setSecmarks() {
            Scanner sc = new Scanner(System.in);
            for (int i = 0; i < 5; i++) {
                System.out.println("Enter " + (i+1) +
                    " Subject external marks (out of 50)");
                secmarks[i] = sc.nextInt();
            }
        }
    }
}

```

```
Enter number of students:
2
Enter student 1 details
Enter USN, Name and Current semester:
0210
Kabir
3
Enter CIE marks of subject 1
35
Enter CIE marks of subject 2
36
Enter CIE marks of subject 3
37
Enter CIE marks of subject 4
30
Enter CIE marks of subject 5
38
Enter SEE marks of subject 1
80
Enter SEE marks of subject 2
86
Enter SEE marks of subject 3
88
Enter SEE marks of subject 4
89
Enter SEE marks of subject 5
90
Enter student 2 details
Enter USN, Name and Current semester:
0215
Karan
3
Enter CIE marks of subject 1
29
Enter CIE marks of subject 2
28
Enter CIE marks of subject 3
27
Enter CIE marks of subject 4
30
Enter CIE marks of subject 5
35
Enter SEE marks of subject 1
```

```
Enter student 2 details
Enter USN, Name and Current semester:
0215
Karan
3
Enter CIE marks of subject 1
29
Enter CIE marks of subject 2
28
Enter CIE marks of subject 3
27
Enter CIE marks of subject 4
30
Enter CIE marks of subject 5
35
Enter SEE marks of subject 1
32
Enter SEE marks of subject 2
31
Enter SEE marks of subject 3
31
Enter SEE marks of subject 4
29
Enter SEE marks of subject 5
20
```

Details of student 1

```
Student Details
Name: Kabir
USN: 0210
Semester: 3
Total marks in subject 1: 115
Total marks in subject 2: 122
Total marks in subject 3: 125
Total marks in subject 4: 119
Total marks in subject 5: 128
```

Details of student 2

```
Student Details
Name: Karan
USN: 0215
Semester: 3
Total marks in subject 1: 111
Total marks in subject 2: 109
Total marks in subject 3: 118
Total marks in subject 4: 109
Total marks in subject 5: 125
```

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