# PROGRAM 6:

Create a package CIE which has two classes-Student and

Internals. The class Personal 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

Student. 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.

#### CODE:

```
import CIE.Student;
import CIE.Internals;
import SEE.Externals;
import java.util.Scanner;
public class Main {
   public static void main(String args[]) {
       Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number of students whose details you
want to enter");
        int n = sc.nextInt();
        Internals[] i1 = new Internals[n];
        for(int i=0;i<n;i++) {
            System.out.println("Student "+(i+1)+" details:");
            e1[i] = new Externals();
           e1[i].getd();
           i1[i].getMarks();
            e1[i].getMarks();
        for(int i=0;i<n;i++) {
           e1[i].display();
            e1[i].calcTotalMarks(i1[i]);
import java.util.Scanner;
```

```
public void getd() {
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter student USN");
    usn = sc.nextLine();
    System.out.println("Enter student name");
    name = sc.nextLine();
    System.out.println("Enter semester");
    sem = sc.nextInt();
public void display() {
    System.out.println();
    System.out.println("Student USN: "+usn);
    System.out.println("Student name: "+name);
    System.out.println("Semester: "+sem);
   System.out.println();
public int marksCie[];
public void getMarks() {
    Scanner sc=new Scanner(System.in);
   System.out.println("enter no of subjects in cie");
   int n=sc.nextInt();
   marksCie=new int[n];
   for(int i=0;i<n;i++) {
        System.out.println("Enter CIE marks in subject "+(i+1));
       marksCie[i]=sc.nextInt();
public int returnCieMarks(int i) {
   return marksCie[i];
```

```
package SEE;
import CIE.Student;
import CIE.Internals;
import java.util.Scanner;
public class Externals extends Student {
   Scanner sc = new Scanner(System.in);
   int marksSee[];
   public void getMarks() {
        System.out.println("Enter the number of subjects");
       n = sc.nextInt();
       marksSee = new int[n];
            System.out.println("Enter SEE marks in subject " + (i + 1));
           marksSee[i] = sc.nextInt();
   public void calcTotalMarks(Internals i1) {
            System.out.println("Subject " + (i + 1) + ": " +
(i1.returnCieMarks(i) + (marksSee[i] / 2)));
       System.out.println();
```

#### **OUTPUT**:

```
Enter the number of students whose details you want to enter
Student 1 details:
Enter student USN
1BM23CS001
Enter student name
Alice
Enter semester
Enter the number of subjects in cie
Enter CIE marks in subject 1
18
Enter CIE marks in subject 2
20
Enter the number of subjects
Enter SEE marks in subject 1
72
Enter SEE marks in subject 2
Student 2 details:
Enter student USN
1BM23CS002
Enter student name
Bob
Enter semester
Enter the number of subjects in cie
Enter CIE marks in subject 1
15
Enter CIE marks in subject 2
Enter the number of subjects
Enter SEE marks in subject 1
80
Enter SEE marks in subject 2
```

```
Student USN: 1BM23CS001
Student name: Alice
Semester: 5
Subject 1: 54
Subject 2: 54
Student USN: 1BM23CS002
Student name: Bob
Semester: 5
Subject 1: 55
Subject 2: 54
```

### NOTES:

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