

```
1 import CIE.*;
2 import SEE.*;
3 import java.util.Scanner;
4
5 class Program6 {
6     public static void main(String[] args) {
7         Scanner inp = new Scanner(System.in);
8         System.out.print("Number of students : ");
9         int n = inp.nextInt();
10        double total[] = new double[5];
11        Internals in[] = new Internals[n];
12        Externals ext[] = new Externals[n];
13        for(int i=0;i<n;i++) {
14            System.out.println("Student "+(i+1));
15            in[i] = new Internals();
16            ext[i] = new Externals();
17            in[i].getdata();
18            ext[i].getdata();
19
20
21        }
22
23        System.out.println("-----Student Details-----");
24        for(int i=0;i<n;i++) {
25            System.out.println("Student "+(i+1));
26            in[i].printdata();
27            ext[i].printdata();
28            System.out.println("Total Marks : ");
29            for(int j=0;j<5;j++) {
30                System.out.println("Subject "+(j+1)+ " : "+(in[i].cie_marks[j] + ext[i].see_marks[j]/2));
31            }
32        }
33    }
34}
```



```
1 package CIE;  
2 import java.util.Scanner;  
3  
4 public class Student {  
5     public String name;  
6     public String USN;  
7     public int sem;  
8 }
```

```
1 package CIE;
2 import java.util.Scanner;
3
4 public class Internals extends Student{
5     public double [] cie_marks = new double[5];
6     public void getdata() {
7         Scanner inp = new Scanner(System.in);
8         System.out.print("Enter the following information : \n");
9         System.out.print("Name : ");
10        name = inp.nextLine();
11        System.out.print("USN : ");
12        USN = inp.nextLine();
13        System.out.print("Semester : ");
14        sem = inp.nextInt();
15
16        System.out.println("Enter the marks scored in CIE : ");
17        for(int i=0;i<5;i++) {
18            System.out.print("Subject "+(i+1)+ " : ");
19            cie_marks[i] = inp.nextDouble();
20        }
21    }
22
23    public void printdata() {
24        System.out.println("Name : "+name);
25        System.out.println("USN : "+USN);
26        System.out.println("Semester : "+sem);
27
28        System.out.println("CIE Marks : ");
29        for(int i=0;i<5;i++) {
30            System.out.println("Subject "+(i+1)+ " : "+cie_marks[i]);
31        }
32    }
33 }
34 }
```

```
1 package SEE;
2 import CIE.*;
3 import java.util.Scanner;
4
5 public class Externals extends Student{
6     public double see_marks[] = new double[5];
7     public void getdata() {
8         Scanner inp = new Scanner(System.in);
9         System.out.println("Enter SEE marks of the student : ");
10        for(int i=0;i<5;i++) {
11            System.out.print("Subject "+(i+1)+" : ");
12            see_marks[i] = inp.nextDouble();
13        }
14    }
15
16    public void printdata() {
17        System.out.println("SEE marks : ");
18        for(int i=0;i<5;i++) {
19            System.out.println("Subject "+(i+1)+" : "+see_marks[i]);
20        }
21    }
22 }
23
24
```

dhruvdubey@Dhruvs-MacBook-Air Lab6 % java Program6

Number of students : 2

Student 1

Enter the following information :

Name : Dhruv Dubey

USN : 1BM19CS041

Semester : 3

Enter the marks scored in CIE :

Subject 1 : 44

Subject 2 : 43

Subject 3 : 42

Subject 4 : 41

Subject 5 : 40

Enter SEE marks of the student :

Subject 1 : 88

Subject 2 : 89

Subject 3 : 90

Subject 4 : 91

Subject 5 : 92

Student 2

Enter the following information :

Name : Divyanshu J

USN : 1BM10CS005

Semester : 4

Enter the marks scored in CIE :

Subject 1 : 45

Subject 2 : 46

Subject 3 : 33

Subject 4 : 41

Subject 5 : 38

Enter SEE marks of the student :

Subject 1 : 94

Subject 2 : 72

Subject 3 : 80

Subject 4 : 91

Subject 3 : 80

Subject 4 : 91

Subject 5 : 92

-----Student Details-----

Student 1

Name : Dhruv Dubey

USN : 1BM19CS041

Semester : 3

CIE Marks :

Subject 1 : 44.0

Subject 2 : 43.0

Subject 3 : 42.0

Subject 4 : 41.0

Subject 5 : 40.0

SEE marks :

Subject 1 : 88.0

Subject 2 : 89.0

Subject 3 : 90.0

Subject 4 : 91.0

Subject 5 : 92.0

Total Marks :

Subject 1 : 88.0

Subject 2 : 87.5

Subject 3 : 87.0

Subject 4 : 86.5

Subject 5 : 86.0

Student 2

Name : Divyanshu J

USN : 1BM10CS005

Semester : 4

CIE Marks :

Subject 1 : 45.0

Subject 2 : 46.0

Subject 3 : 33.0

Subject 4 : 41.0

```
SEE marks :
Subject 1 : 88.0
Subject 2 : 89.0
Subject 3 : 90.0
Subject 4 : 91.0
Subject 5 : 92.0
Total Marks :
Subject 1 : 88.0
Subject 2 : 87.5
Subject 3 : 87.0
Subject 4 : 86.5
Subject 5 : 86.0
Student 2
Name : Divyanshu J
USN : 1BM10CS005
Semester : 4
CIE Marks :
Subject 1 : 45.0
Subject 2 : 46.0
Subject 3 : 33.0
Subject 4 : 41.0
Subject 5 : 38.0
SEE marks :
Subject 1 : 94.0
Subject 2 : 72.0
Subject 3 : 80.0
Subject 4 : 91.0
Subject 5 : 92.0
Total Marks :
Subject 1 : 92.0
Subject 2 : 82.0
Subject 3 : 73.0
Subject 4 : 86.5
Subject 5 : 84.0
```