```java
package CIE;

public class Student {
    int usn;
    String name = new String();
    int sem;
}
```

```java
package CIE;

import java.util.*;

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

     Scanner sinp = new Scanner(System.in);

    public void getData(){

        System.out.println("Name :");
        name = sinp.nextLine();
        System.out.println("Sem :");
        sem = sinp.nextInt();
        System.out.println("Usn :");
        usn = sinp.nextInt();

        System.out.println("Enter the marks of 5 subjects");

        for (int i = 0; i < 5; i++) {
            System.out.println("Subject "+ (1+i));
            marks[i] = sinp.nextInt();
        }
    }


    public void Displaydata(){
        System.out.println("Name : " + name);
        System.out.println("Sem : "+ sem);
        System.out.println("Usn : "+usn);

        System.out.println("\nINTERNAL marks\n:");
        for (int i = 0; i < marks.length; i++) {
            System.out.print(marks[i]+"\t");
        }
```

```
        }
}
```

```java
package SEE;

import CIE.*;

import java.util.*;

public class external extends Student{
  public  int fmarks[] = new int[5];

    Scanner sminp = new Scanner(System.in);

    public void getMarks(){
        System.out.println("Enter SEE marks in all 5 Subjects");

        for (int j = 0; j < fmarks.length; j++) {
            System.out.println("Subject "+(1+j));
            fmarks[j] = sminp.nextInt();
        }

    }

    public void DisplaySee(){
        System.out.println("\nSEE marks\n");
        for (int i = 0; i < fmarks.length; i++) {
            System.out.print(fmarks[i]+"\t");
        }
    }
}
```

```java
package FINAL;
```

```java
import CIE.*;
import SEE.*;

import java.util.*;




public class finalmarks {

    static void finalmarksss(int x[], int y[]) {
        int sum[] = new int [5];

        for (int i = 0; i < 5; i++) {
            sum[i] = x[i]  + (y[i]/2);
        }

        System.out.println("\nFinal marks in the Course are :");
        for (int i = 0; i <5 ; i++) {
            System.out.println("Course "+(i+1));
            System.out.println(sum[i]);
        }

    }

    public static void main(String[] args) {
        int n;
        Scanner minp = new Scanner(System.in);


        System.out.println("Enter the total no of students");
        n = minp.nextInt();

        Internals I[] = new Internals[n];
        external E[]  = new external[n];

        for (int i = 0; i <n; i++) {
            System.out.println("Enter the Data of Student "+(i+1));
            I[i] = new Internals();
            E[i] = new external();

            I[i].getData();
            E[i].getMarks();
        }

        System.out.println("\n******Displaying the DATA of Students*******");

        for (int k = 0; k < n; k++) {
```

```java
        System.out.println("*******DETAILS of STUDENT********"+(k+1));
        System.out.println("Prsonal Details");
        I[k].Displaydata();
        E[k].DisplaySee();
        finalmarksss(I[k].marks, E[k].fmarks);
    }

    minp.close();
    }
}
```

```
*******DETAILS of STUDENT********2
Prsonal Details
Name : sherlock
Sem : 4
Usn : 158

INTERNAL marks
:
45       41       49       46       43
SEE marks

98       100      91       94       96
Final marks in the Course are :
Course 1
94
Course 2
91
Course 3
94
Course 4
93
Course 5
91
```

```
******Displaying the DATA of Students*******
*******DETAILS of STUDENT********1
Prsonal Details
Name : rocky
Sem : 3
Usn : 157

INTERNAL marks
:
50       48       49       43       46
SEE marks

100      95       91       99       97
Final marks in the Course are :
Course 1
100
Course 2
95
Course 3
94
Course 4
92
Course 5
94
```

```
4
Usn :
158
Enter the marks of 5 subjects
Subject 1
45
Subject 2
41
Subject 3
49
Subject 4
46
Subject 5
43
Enter SEE marks in all 5 Subjects
Subject 1
98
Subject 2
100
Subject 3
91
Subject 4
94
Subject 5
96
```

```
Enter the total no of students
2
Enter the Data of Student 1
Name :
rocky
Sem :

3
Usn :
157
Enter the marks of 5 subjects
Subject 1
50
Subject 2
48
Subject 3
49
Subject 4
43
Subject 5
46
Enter SEE marks in all 5 Subjects
Subject 1
100
Subject 2
95
Subject 3
91
Subject 4
99
Subject 5
97
Enter the Data of Student 2
Name :
sherlock
Sem :
4
```