```
package CIE;

public class Student {
    public String usn;
    public String name;
    public int sem;

    public Student(String usn, String name, int sem) {
        this.usn = usn;
        this.name = name;
        this.sem = sem;
    }

    public void display() {
        System.out.println("USN: " + usn);
        System.out.println("Name: " + name);
        System.out.println("Semester: " + sem);
    }
}
```

```
package CIE;

public class Internals {
    public int internalMarks[] = new int[5];

    public Internals(int m1, int m2, int m3, int m4, int m5) {
        internalMarks[0] = m1;
        internalMarks[1] = m2;
        internalMarks[2] = m3;
        internalMarks[3] = m4;
        internalMarks[4] = m5;
    }
}
```

```
package SEE;

import CIE.Student;

public class External extends Student {
    public int seeMarks[] = new int[5];
```

```
    public External(String usn, String name, int sem,
                    int s1, int s2, int s3, int s4, int s5) {

        super(usn, name, sem);

        seeMarks[0] = s1;
        seeMarks[1] = s2;
        seeMarks[2] = s3;
        seeMarks[3] = s4;
        seeMarks[4] = s5;
    }
}


import java.util.*;
import CIE.*;
import SEE.*;

public class FinalMarks {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        System.out.print("Enter number of students: ");
        int n = sc.nextInt();

        Internals[] internal = new Internals[n];
        External[] external = new External[n];

        for (int i = 0; i < n; i++) {
            System.out.println("\nEnter details of student " + (i + 1));

            System.out.print("USN: ");
            String usn = sc.next();

            System.out.print("Name: ");
            String name = sc.next();

            System.out.print("Semester: ");
            int sem = sc.nextInt();

            System.out.println("Enter 5 internal marks:");
            int im[] = new int[5];
            for (int j = 0; j < 5; j++)
```

```
            im[j] = sc.nextInt();

        System.out.println("Enter 5 SEE marks:");
        int sm[] = new int[5];
        for (int j = 0; j < 5; j++)
            sm[j] = sc.nextInt();

        internal[i] = new Internals(im[0], im[1], im[2], im[3], im[4]);
        external[i] = new External(usn, name, sem, sm[0], sm[1], sm[2], sm[3], sm[4]);
    }

    System.out.println("\nFINAL RESULTS");

    for (int i = 0; i < n; i++) {
        System.out.println("\nStudent " + (i + 1) + ":");
        external[i].display();

        for (int j = 0; j < 5; j++) {
            int finalMarks = internal[i].internalMarks[j] + (external[i].seeMarks[j] / 2);
            System.out.println("Course " + (j + 1) + " Final Marks: " + finalMarks);
        }
    }

    sc.close();
  }
}
```

output:

```
Enter number of students: 1

Enter details of student 1
USN: 1wa24cs206
Name: koushik
Semester: 03
Enter 5 internal marks:
49
49
49
48
45
Enter 5 SEE marks:
45
```

46
43
42
41

FINAL RESULTS

Student 1:
USN: 1wa24cs206
Name: koushik
Semester: 3
Course 1 Final Marks: 71
Course 2 Final Marks: 72
Course 3 Final Marks: 70
Course 4 Final Marks: 69
Course 5 Final Marks: 65

Process finished with exit code 0