```
Student.java
 1
2
3
4
5
6
7
8
9
               CIE;
       port java.util.Scanner;
    public class Student
          public String name;
         public String usn;
public int sem;
public void display()
10
              Scanner s2=new Scanner(System.in);
11
              System.out.println("Name:");
12
              name=s2.next();
13
              System.out.println("USN:");
14
              usn=s2.next();
15
              System.out.println("Semester:");
16
               sem=s2.nextInt();
17
18
19
```

```
CIE;
1
2
3
4
5
6
7
            java.util.Scanner;
      dblic class Internals extends Student
        public double[] ciem;
8
         public void display()
             ciem = new double[5];
10
            Scanner s1 = new Scanner(System.in);
11
            System.out.println("CIE Marks for 5 subjects out of 50:");
12
              or(int i=0;i<5;i++){</pre>
13
                 ciem[i]=s1.nextDouble();
14
                 if(ciem[i] > 50){
15
                     System.out.println("Please enter valid internal marks");
17
18
19
20
```

```
SEE:
 2
            java util 🤹
            CIE. :
4
5
6
7
8
9
    oublic class Externals extends CIE.Student
        public double() seem;
          mblsc void display()
10
            seem = new double[5];
11
            Scanner s=new Scanner(System.in);
12
            System.out.println("SEE Marks for 5 subjects(out of 100):");
13
            for(int i=0;i<5;i++){
14
                 seem[i]=s.nextDouble();
15
                 if(seem[i] > 100){
16
                     System.out.println("Please enter valid External marks");
17
18
19
20
21
```

```
CIE.
                 SEE.*;
java.util.Scanner;
 2
 3
             c class main
4 5
              ublic static void main(String args[])
 6
 7
 8
                  Scanner s3=new Scanner(System.in);
System.out.println("Enter the number of students:");
 9
10
11
                  n=s3.nextInt();
                  CIE.Student[] st =new CIE.Student[n];
CIE.Internals[] in =new CIE.Internals[n];
SEE.Externals[] ex =new SEE.Externals[n];
for (int i=0;i<n;i++)</pre>
12
13
14
15
16
                        st[i]=new CIE.Student();
in[i]=new CIE.Internals();
ex[i]=new SEE.Externals();
st[i].display();
in[i].display();
17
18
19
20
21
                         ex[i].display();
22
                        System.out.println("Total marks of student "+st[i].name*" in 5 subjects are:");
23
                             (int j=0;j<5;j++)
24
25
26
                               System.out.println(in[i].ciem[j]*(ex[i].seem[j]/2));
27
28
29
30
31 }
```

```
((base) jathinsmacbookpro@Jathins-MacBook-Pro lab6 % java main
Enter the number of students:
2
Name:
iathin
USN:
1234
Semester:
CIE Marks for 5 subjects out of 50:
45
46
47
48
49
SEE Marks for 5 subjects(out of 100): 93
94
95
96
Total marks of student jathin in 5 subjects are: 91.5
93.0
96.0
Name:
qwerty
USN:
4567
Semester:
CIE Marks for 5 subjects out of 50:
34
35
36
37
38
SEE Marks for 5 subjects(out of 100):
67
78
89
```

```
CIE Marks for 5 subjects out of 50:
45
45
46
47
48
49
SEE Marks for 5 subjects(out of 100):
93
94
95
96
97
Total marks of student jathin in 5 subjects are:
91.5
93.0
Semester:
CIE Marks for 5 subjects out of 50:

34

35

36

37

38

SEE Marks for 5 subjects(out of 100):

67

78

89

98

87

Total marks of student qwerty in 5 subjects are:

67.5

74.0

80.5

86.0

81.5
(base) jathinsmacbookpro@Jathins-MacBook-Pro lab6
(base) jathinsmacbookpro@Jathins-MacBook-Pro labó % ■
```