

```
package CIE;
import java.util.*;
public class personal
{
    public String name;
    public int sem;
    public String usn;

    public void read()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the name");
        name = sc.next();
        System.out.println("Enter the semester");
        sem = sc.nextInt();
        System.out.println("Enter the USN");
        usn = sc.next();
    }
    public void display()
    {
        System.out.println("Student details: ");
        System.out.println("Name: "+name+"\nUSN: "+usn+"\nSem: "+sem);
    }
}
```

```
package CIE;
import java.util.*;
public class internals extends personal
{
    public double cie[];

    public void accept()
    {
        cie= new double[5];
        Scanner sc = new Scanner(System.in);
        for(int i=0;i<5;i++)
        {
            System.out.println("CIE mark for course "+(i+1)+" : ");
            cie[i]= sc.nextDouble();
        }
    }
}
```

```
package SEE;
import java.util.*;
import CIE.*;
public class externals extends personal
{
    public double see[];

    public void get()
    {
        see= new double[5];
        Scanner sc = new Scanner(System.in);
        for(int i=0;i<5;i++)
        {
            System.out.println("SEE mark for course "+(i+1)+" : ");
            see[i]= sc.nextDouble();
        }
    }
}
```

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

class Main
{
    public static void main(String args[])
    {
        Scanner sx = new Scanner(System.in);
        System.out.println("Enter the number of students");
        int n= sx.nextInt();
        CIE.internals in[]= new CIE.internals[n];
        SEE.externals en[]= new SEE.externals[n];
        int i,j;
        for(i=0;i<n;i++)
        {
            System.out.println("Student "+(i+1));
            in[i] = new CIE.internals();
            en[i] = new SEE.externals();
            in[i].read();

            System.out.println("CIE MARKS:");
            in[i].accept();
            System.out.println("SEE MARKS:");
            en[i].get();
            System.out.println();
            in[i].display();
            for(j=0;j<5;j++)

                System.out.println("Total Marks for course "+(j+1)+" : "+(in[i].cie[j] + (en[i].see[j]/2)));
        }
    }
}
```

Enter the number of students

2

Student 1

Enter the name

Anisha_Nair

Enter the semester

3

Enter the USN

1BM19CS018

CIE MARKS:

CIE mark for course 1 :

50

CIE mark for course 2 :

50

CIE mark for course 3 :

45

CIE mark for course 4 :

46

CIE mark for course 5 :

47

SEE MARKS:

SEE mark for course 1 :

100

SEE mark for course 2 :

100

SEE mark for course 3 :

99

SEE mark for course 4 :

89

SEE mark for course 5 :

92

Student details:

Name: Anisha_Nair

USN: 1BM19CS018

Sem: 3

Total Marks for course 1: 100.0

Total Marks for course 2: 100.0

Total Marks for course 3: 94.5

Total Marks for course 4: 90.5

Total Marks for course 5: 93.0

```
Student 2
Enter the name
Anju_Gopi
Enter the semester
4
Enter the USN
1BM20CS009
CIE MARKS:
CIE mark for course 1 :
50
CIE mark for course 2 :
50
CIE mark for course 3 :
40
CIE mark for course 4 :
33
CIE mark for course 5 :
46
SEE MARKS:
SEE mark for course 1 :
100
SEE mark for course 2 :
99
SEE mark for course 3 :
89
SEE mark for course 4 :
82
SEE mark for course 5 :
92

Student details:
Name: Anju_Gopi
USN: 1BM20CS009
Sem: 4
Total Marks for course 1: 100.0
Total Marks for course 2: 99.5
Total Marks for course 3: 84.5
Total Marks for course 4: 74.0
Total Marks for course 5: 92.0
```

```
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(program exited with code: 0)
```