

```
Package cie;  
import java.util.*;
```

```
public class student {  
    Scanner sc = new Scanner(System.in);  
    public String usn = "";  
    public String name = "";  
    public int sem = 0;
```

```
    public void getData() {  
        System.out.println("USN : ");  
        usn = sc.next();  
        System.out.println("Name : ");  
        name = sc.next();  
        System.out.println("Semester : ");  
        sem = sc.nextInt();  
    }  
}
```

```
Package cie;  
import java.util.Scanner;
```

```
public class internal {  
    Scanner sc = new Scanner(System.in);  
    double ciemarks[] = new double[5];  
    int i;  
    double total = 0.0;  
    public double getmarks() {  
        System.out.println("\nEnter the cie-marks: ");
```

```

        for (i=0; i<5; i++) {
            System.out.println((i+1) + "subject:");
            ciemarks[i] = sc.nextDouble();
            total = total + ciemarks[i];
        }
        return total;
    }
}

```

```

package see;
import cie.*;
import java.util.Scanner;

```

```

public class external extends cie.student {
    Scanner sc = new Scanner(System.in);

```

```

    double seemarks[] = new double (System.in) [5];
    int i;

```

```

    double total;

```

```

        public double getmarks() {
            System.out.println("\n\t Enter the SEE marks : ");
            for (i=0; i<5; i++) {

```

```

                System.out.println("subject " + (i+1));
                seemarks[i] = sc.nextDouble();
                total = total + seemarks[i];
            }

```

```

            return total;
        }
    }
}

```



```
import cie.*;
import see.*;
import java.util.Scanner;
```

```
class main {
    public static void main (String args[]) {
        Scanner aa = new Scanner(System.in);
        int n;
        System.out.println("Enter the Number of cie-students");
        n = aa.nextInt();
        cie.student s[] = new cie.student[n];
        cie.internal cie[] = new cie.internal[n];
        see.external e[] = new see.external[n];
```

```
        double total_ciemarks[] = new double[n];
        double total_seemarks[] = new double[n];
```

```
        for (int i=0; i<n; i++) {
            s[i] = new cie.student();
            System.out.println("\n\n Enter the details of the
                                student" + (i+1) + " : ");
            s[i].getdata();
```

```
            cie[i] = new cie.internal();
            total_cie_marks[i] = cie[i].getmarks();
            e[i] = new see.external();
            total_see_marks[i] = e[i].getmarks();
        }
    }
}
```

```

for (int j=0; j<n; j++) {
    System.out.println("n | n <----" + s[j].name + "---->");
    System.out.println(" |t USN:>" + s[j].usn);
    System.out.println(" |t SEM:>" + s[j].sem);
    System.out.println(" |n Ciemarks:>" + total_ciemarks[j] +
        " |t" + " SEemarks:>" + total_seemarks[j]);
    System.out.println(" |t ..... END .....");
}

```

}

}



```
package cie;
import java.util.Scanner;

public class internal{
Scanner sc=new Scanner(System.in);
double ciemarks[]=new double[5];
int i;
double total=0.0;
    public double getmarks(){
        System.out.println("\n\tEnter the cie-marks:");
        for(i=0;i<5;i++){

            System.out.println((i+1)+" subject :");
            ciemarks[i]=sc.nextDouble();
            total=total+ciemarks[i];

        }
        return total;
    }
}
```



```
package see;  
import cie.*;
```

```
import java.util.Scanner;
```

```
public class external extends cie.student{
```

```
Scanner sc=new Scanner(System.in);
```

```
double seemarks[]=new double[5];
```

```
int i;
```

```
double total;
```

```
    public double getmarks(){
```

```
        System.out.println("\n\tEnter the SEE marks:>");
```

```
        for(i=0;i<5;i++){
```

```
            System.out.println("subject"+ (i+1));
```

```
            seemarks[i]=sc.nextDouble();
```

```
            total=total+seemarks[i];
```

```
        }
```

```
        return total;
```

```
    }
```

```
}
```



```
import cie.*;
import see.*;
import java.util.Scanner;
```

```
class main{
public static void main(String args[]){
Scanner aa=new Scanner(System.in);
int n;
System.out.println("Enter the Number of cie.students :>");
n=aa.nextInt();
cie.student s[]=new cie.student[n];
cie.internal cie[]=new cie.internal[n];
see.external e[]=new see.external[n];
double total_ciemarks[]=new double[n];
double total_seemarks[]=new double[n];

// for inputting data of n students
for(int i=0;i<n;i++){
s[i]=new cie.student();
System.out.println("*****");
System.out.println("\n\n\tEnter the details of the student"+(i+1)+":>");
s[i].getdata();
// for getting cie marks of 5 subjects
cie[i]=new cie.internal();
total_ciemarks[i]=cie[i].getmarks();
e[i]=new see.external();
```



```

// for inputting data of n students
for(int i=0;i<n;i++){
s[i]=new cie.student();
System.out.println("*****");
System.out.println("\n\n\tEnter the details of the student"+(i+1)+">");
s[i].getdata();
// for getting cie marks of 5 subjects
cie[i]=new cie.internal();
total_ciemarks[i]=cie[i].getmarks();
e[i]=new see.external();
total_seemarks[i]=e[i].getmarks();
}

// for displaying students total marks
for(int j=0;j<n;j++){
System.out.println("\n\n<-----"+s[j].name+"----->");
System.out.println("\t USN:>"+s[j].usn);
System.out.println("\t SEM:>"+ s[j].sem);
System.out.println("\nCIE_marks:>"+total_ciemarks[j]+ "\t" + "SEE_marks:>"+
total_seemarks[j]);
System.out.println("\nTotal marks(cie+see)==>"+ " " + (total_ciemarks
[j]+(total_seemarks[j]/2) ));
System.out.println("\t<-----END----->\n\n");
}

}
}

```



C:\Users\cw\Desktop\OOJLAB\Lab6>java main

Enter the Number of cie.students :>

1

#####

Enter the details of the student1:>

Usn:>

1bm19cs015

Name:>

amitkumar

Semester:>

3

Enter the cie-marks:

1 subject :

45

2 subject :

46

3 subject :

47

4 subject :

48

5 subject :

45

Enter the SEE marks:>

subject1

8

subject2

89

subject3

88

subject4

78

subject5

79

<-----amitkumar----->

USN:>1bm19cs015

SEM:>3

CIE\_marks:>231.0

SEE\_marks:>342.0

Total marks(cie+see)==> 482.0

<-----END----->