```java
package CIE;
import java.util.Scanner;
public class Student
{
public String name;
public String usn;
public int sem;
public void display()
{
Scanner s=new Scanner(System.in);
System.out.println("Name:");
name=s.next();
System.out.println("USN:");
usn=s.next();
System.out.println("Semester:");
sem=s.nextInt();
}
}
```

File   Edit   Search   View   Encoding   Language   Settings   Tools   Macro   Run   Plugins   Window   ?

Prog2.java   Solidmain.java   Personmain.java   Main1.java   Student.java   Internals.java   Externals.java   Main.java

```java
package CIE;
import java.util.Scanner;
public class Internals extends Student
{
  public double ciem[];

  public void display()
  {
  ciem=new double[5];
  Scanner t=new Scanner(System.in);
  System.out.println("CIE Marks for 5 subjects(out of 50):");
  for(int i=0;i<5;i++)
  ciem[i]=t.nextDouble();
  }
}
```

```java
package SEE;
import java.util.*;
import CIE.*;
public class Externals extends CIE.Student
{
 public double seem[];

 public void display()
 {
  seem=new double[5];
Scanner s=new Scanner(System.in);
  System.out.println("SEE Marks for 5 subjects(out of 100):");
  for(int i=0;i<5;i++)
  seem[i]=s.nextDouble();
 }
}
```

Prog2.java   Solidmain.java   Personmain.java   Main1.java   Student.java   Internals.java   Externals.java   Main.java

```java
import CIE.*;
import SEE.*;
import java.util.Scanner;
public class Main
{
public static void main(String args[])
{
int n;
Scanner s=new Scanner(System.in);
System.out.println("Enter the number of students:");
n=s.nextInt();
CIE.Student st[]=new CIE.Student[n];
CIE.Internals in[]=new CIE.Internals[n];
SEE.Externals e[]=new SEE.Externals[n];
for(int i=0;i<n;i++)
{
st[i]=new CIE.Student();
in[i]=new CIE.Internals();
e[i]=new SEE.Externals();
st[i].display();
in[i].display();
e[i].display();
System.out.println("Total marks of student: "+st[i].name+" in 5 subjects are:");
for(int j=0;j<5;j++)
{
System.out.println(in[i].ciem[j]+(e[i].seem[j]/2));
}
}
}
}
```

```
Microsoft Windows [Version 10.0.18362.1016]
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C:\Users\arpit>cd..

C:\Users>cd..

C:\>cd java lab\packages

C:\java lab\packages>javac Main.java

C:\java lab\packages>java Main
Enter the number of students:
2
Name:
aaa
USN:
1234
Semester:
3
CIE Marks for 5 subjects(out of 50):
34
34
12
45
43
SEE Marks for 5 subjects(out of 100):
87
43
87
67
25
Total marks of student: aaa in 5 subjects are:
77.5
55.5
55.5
78.5
55.5
Name:
bbb
USN:
5678
Semester:
3
CIE Marks for 5 subjects(out of 50):
45
50
46
47
```

```
Command Prompt

Name:
aaa
USN:
1234
Semester:
3
CIE Marks for 5 subjects(out of 50):
34
34
12
45
43
SEE Marks for 5 subjects(out of 100):
87
43
87
67
25
Total marks of student: aaa in 5 subjects are:
77.5
55.5
55.5
78.5
55.5
Name:
bbb
USN:
5678
Semester:
3
CIE Marks for 5 subjects(out of 50):
45
50
46
47
48
SEE Marks for 5 subjects(out of 100):
98
87
89
90
93
Total marks of student: bbb in 5 subjects are:
94.0
93.5
90.5
92.0
94.5
```