File with name student.java-

```
/*Create a package CIE which has two classes- Student and
Internals. The class Personal has members like usn, name, sem.
The class Internals has an array that stores the internal marks
scored in five courses of the current semester of the student.
Create another package SEE which has the class External which is
a derived class of Student. This class has an array that
stores the SEE marks scored in five courses of the current
semester of the student. Import the two packages in a file that
declares the final marks of n students in all five courses.
Below is two programs of class Student and class Internals.Both
belong to a package named CIE. Class Internals extends from class
Student.
*/
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 with name Main.javaimport 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:");
```

```
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));
}
}
}
}
File with name Internals.javapackage 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();
}
}
File with name Externals.javapackage SEE;
import java.util.*;
import CIE.*;
public class Externals extends CIE.Student
{
public double seem[];
```

```
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));
}
}
}
}
File with name Internals.javapackage 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();
}
}
File with name Externals.javapackage 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();
}
}
```