Package programm

```
Package cie;
import java.util.*;
public class Student
{
    Public string usn;
    public string name;
    public int sem;

    Public void read()
    {
        Scanner sc=new scanner(System.in);
        System.out.println("Enter the usn of the
                            student");

        usn = sc.next();
        System.out.println("Enter the name of the stud
        name = sc.next();
        System.out.println("Enter the semester of the
                            student");

        Sem = sc.nextInt();


    }
```

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

Public class internals extends Student
{
    public int[] a=new int[5];
    public void main read()
    {
        Super.read();
```

```java
Scanner sc = new Scanner(System.in);
System.out.println("Enter the CIE marks of 5
                                  Courses");
for(int i = 0; i < 5; i++)
{
    System.out.println("Enter marks of the course"
                                  + (i+1));
    a[i] = sc.nextInt();
}
}

Public void display()
{
    System.out.println("USN of the student is" + usn);
    System.out.println("name of the student is" + name);
    System.out.println("Semester of the student is" + Sem);
}
}
};
```

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

Public class external extends cie.Student
{
    Public int [] b = new int [5];
    Public int [] mar;
    Public void read()
    {
        Scanner sc = new Scanner(System.in);
        for(int i = 0; i < 5; i++)
```

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```
{
    System.out.println("Enter the SEG mar
                    of the couse " + (i+1));
    b[i] = sc.nextint();
}
```

```
}
}
```

```
import java.util.*;
import java.io.*;
import java.lang.*;
import cie;
import See.*;

Public class Student_end
{
    Public Static void main (String[] arg)
    {
        int n;
        Scanner sc = new scanner (system.in);
        imt final mark;
        System.out.println("Enter th Number of s
        n = sc.next Int();
        internals [] in = new internals [n];
        externals [] ex = new externals [n];
        internals Ob1 = new internals ();
        externals ob2 = new externals ();
        ob2.mar = new int [n];
        for (int i=0; i<n; i++)
        {
```

```
System.out.Println("Enter the details of
        the student" + (i+1));
int [i] = new internals();
int [i].read();
ex [i] = new external();
ex [i].read();
}

System.out.Println();
    for (int i=0; i<n; i++)
    {
        System.out.println("****** Details students
            ***" + (i+1));
        System.Out.Println("USN of the student is "+
            in [i].Usn);
        System.out.println("Name of the student is "+
            in[i].name);
        System.out.Println("semester of the student
            is "+ in[i].sem);
        for (int j=0; j<5; j++)
        {
            final-mark = in[i].a[j] + ((ex[i].b[j])/2);
            System.out.println("Final mark of the student
            " + (i+1) + " " " in course" + (j+1) + " " +
            final-mark);
        }
        System.out.Println();
    }
}
}
```