

> PackagesStudent.java

```
package CIE;  
import java.util.Scanner;  
public class Student  
{  
    public String name;  
    public String USNUSN;  
    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();  
    }  
}
```

Internals.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();  
    }  
}
```

Externals.java

```
package SEE;  
import java.util.*;  
import CIE.*;  
public class Externals extends CIE.Student
```

```

{
    public double seenm [];
    public void display () {
        seenm = 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++)
            seenm[i] = s.nextDouble();
    }
}

```

Main.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++)
{
```

$s^+ [i] = \text{new CIE. Students} (1);$
 $i_n [i] = \text{new CIE. Internals} ();$
 $e [i] = \text{new SEE. Externals} (1000);$

```
for 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<s; j++)
```

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System.out.println((in[i].cien[j]
+ (e[i].seen[j] / 2));

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