

## Package program

File: student.java

```
package cie;
import java.util.*;
public class student
{
    public String usn, name;
    public int sem;
    public void read()
    {
        Scanner in = new Scanner(System.in);
        System.out.print("Enter usn of the student");
        usn = in.nextLine();
        System.out.print("Enter name of the student");
        name = in.nextLine();
        System.out.print("Enter semester of the student:");
        sem = in.nextInt();
    }
}
```

File: internals.java

```
import java.util.*;
public class internals extends student
{
    public int[] cie-m = new int[3];
    public void read()
    {
        super.read();
        Scanner in = new Scanner(System.in);
        System.out.println("Enter the CIE marks:");
        for(int i=0; i<3; i++)
        {
            System.out.print("Enter course" + (i+1) + "marks:");
            cie-m[i] = in.nextInt();
        }
    }
    public void display()
    {
        System.out.println("USN of the student is " + usn);
        System.out.println("Name of student is " + name);
        System.out.println("Semester of student is " + sem);
    }
}
```

File externals.java

package see;

import java.util.io;

public class external extends cie.student

{ public int[] see-m=new int[3];

public int[] mar;

public void read()

{ Scanner in = new Scanner(System.in);

System.out.println("Enter & Marks :");

for (int i = 0; i < 3; i++)

{ System.out.println("Enter course" + (i+1) + "Marks");

see-m[i] = in.nextInt();

}

}

}

---

main-stu.java

import java.util.\*;

import cie.\*;

import see.\*;

public class stud-end

{ public static void main (String[] args)

{ int n;

Scanner \$G = new Scanner (System.in);

int final-mark;

System.out.print ("Enter the number of  
Students: ");

n = \$G.nextInt();

internal[] in = new internal[n];

external[] ex = new external[n];

internal ob1 = new internal();

external ob2 = new external();

ob2.mar = new int[n]

```
for (int i=0; i<n; i++)
```

```
{ System.out.println("Enter the details of Students");
```

```
in[i] = new internal();
```

```
in[i].read();
```

```
ex[i] = new external();
```

```
ex[i].read();
```

```
}
```

```
System.out.println();
```

```
for (int i=0; i<n; i++)
```

```
{ System.out.println("Student "+(i+1)+" details");
```

```
System.out.println("USN: "+in[i].usn);
```

```
System.out.println("name: "+in[i].name);
```

```
System.out.println("Semester: "+in[i].sem);
```

```
for (int j=0; j<3; j++)
```

```
{ final-mark = in[i].cie-m[j] + (ex[i].see-m[j]/2);
```

```
System.out.println("Final Mark of student "+
```

```
(i+1) + " " + "in course " + (j+1) + " is " + final-mark);
```

```
}
```

```
System.out.println();
```

```
}
```

```
}
```

```
}
```