```
Internals - Notepad
                                                                          X
File Edit Format View Help
package CIE;
import java.util.*;
public class Internals {
  public int internals[]=new int[5];
  Scanner input = new Scanner(System.in);
  public void GetDetails() {
          System.out.println("Enter marks of CIE: \n");
                  for(int j=1;j<=5;j++) {
                          System.out.println("Enter marks of course : " + j);
                          internals[j-1]=input.nextInt();
                  }
  }
```

```
Student - Notepad — X

File Edit Format View Help

package CIE;

public class Student {
    public int usn;
    public String name;
    public int sem;

}
```

```
File Edit Format View Help
package marks;
import CIE.*;
import see.*;
import java.util.*;
class marks {
 public static void main(String args[]) {
          int n;
           Scanner in = new Scanner(System.in);
                System.out.println("Enter the number of students:\n");
                  n=in.nextInt();
          Internals[] cie=new Internals[n];
          externals[] sem=new externals[n];
          //externals semMarks=new externals();
          for(int i=0;i<n;i++) {
                  sem[i]=new externals();
                  sem[i].EnterDetails(i+1);
                  cie[i]=new Internals();
                  cie[i].GetDetails();
          System.out.println("The Marks And Details of Students Registered are:\n");
          for(int j=0;j<n;j++) {
                  System.out.println("Student " + (j+1));
                  System.out.println("USN: "+sem[j].usn);
                  System.out.println("Name: "+sem[j].name);
                  System.out.println("Semester: "+sem[j].sem);
                  System.out.println("Final Marks :\n");
                  for(int i=0;i<5;i++) {
                  Systam out nrintln/"Course " + (i+1) + "\n"+/(sam[i] samastar[i]/2)+sia[i] internals[i]).
```

marks - Notepad

```
File Edit Format View Help
           for(int i=0;i<n;i++) {</pre>
                     sem[i]=new externals();
                     sem[i].EnterDetails(i+1);
                     cie[i]=new Internals();
                     cie[i].GetDetails();
           System.out.println("The Marks And Details of Students Registered are:\n");
           for(int j=0;j<n;j++) {
                     System.out.println("Student " + (j+1));
                     System.out.println("USN: "+sem[j].usn);
System.out.println("Name: "+sem[j].name);
System.out.println("Semester: "+sem[j].sem);
                     System.out.println("Final Marks :\n");
                     for(int i=0;i<5;i++) {
                     System.out.println("Course " + (i+1) + "\n" + ((sem[j].semester[i]/2) + cie[j].internals[i]));
                     System.out.println();
           }
```

marks - Notepad

```
externals - Notepad
                                                                                                         File Edit Format View Help
package see;
import java.util.Scanner;
import CIE.*;
public class externals extends Student {
     public int semester[] =new int[5];
     Scanner in = new Scanner(System.in);
     public void EnterDetails(int i) {
         System.out.println("Student " + i);
         System.out.println("Enter the usn of student:\n");
          usn=in.nextInt();
          System.out.println("Enter the name of student:\n");
          name=in.next();
          System.out.println("Enter the semester of student:\n");
          sem=in.nextInt();
          System.out.println("Enter marks of SEE : \n ");
                  for(int j=0;j<5;j++) {
                          System.out.println("Enter marks of course " + (j+1));
                          semester[j]=in.nextInt();
                  }
     }
```

```
Test - Notepad
File Edit Format View Help
package test;
import java.util.*;
class std
{
String usn, name;
static int credits[];
static double marks[];
void input(int n)
{
Scanner sc=new Scanner(System.in);
System.out.println("enter usn and name ");
usn=sc.nextLine();
name=sc.nextLine();
System.out.println("enter marks along with credits");
for(int i=0;i<n;i++)
marks[i]=sc.nextDouble();
credits[i]=sc.nextInt();
System.out.println();
}
}
double calculate(int n)
int c,cred=0;
double tot, total=0.0;
for(int i=0;i<n;i++)
tot=marks[i];
if(tot>=90)
            c=10;
            else if(tot>=80)
```

```
Test - Notepad
                                                                                                          File Edit Format View Help
if(tot>=90)
            c=10;
            else if(tot>=80)
            c=9;
            else if(tot>=70)
            c=8;
            else if(tot>=60)
            c=7;
            else if(tot>=50)
            c=6;
            else if(tot>=40)
c=4;
   else
c=0;
  total=total+(c*credits[i]);
cred=cred+credits[i];
total=total/cred;
return(total);
}
void display(int n,double total)
System.out.println("name of student : "+name);
System.out.println("usn of student : "+usn);
System.out.println("marks of student along with credits of course");
for(int i=0;i<n;i++)
System.out.println(marks[i]+" "+credits[i]);
System.out.println("sgpa of student : "+total);
}
class Test{
public void main (String args[])
```

```
Test - Notepad
File Edit Format View Help
cred=cred+credits[i];
total=total/cred;
return(total);
void display(int n,double total)
System.out.println("name of student : "+name);
System.out.println("usn of student : "+usn);
System.out.println("marks of student along with credits of course");
for(int i=0;i<n;i++)
System.out.println(marks[i]+" "+credits[i]);
System.out.println("sgpa of student : "+total);
class Test{
public void main (String args[])
{
Scanner sc=new Scanner(System.in);
std obj=new std();
System.out.println("enter no of course ");
int n=sc.nextInt();
obj.credits=new int[n];
obj.marks=new double[n];
obj.input(n);
double total=obj.calculate(n);
obj.display(n,total);
```

```
Enter marks of course: 3
45
Enter marks of course: 4
45
Enter marks of course : 5
45
The Marks And Details of Students Registered are:
Student 1
USN: 100
Name: Student!
Semester: 3
Final Marks :
Course 1
92
Course 2
95
Course 3
88
Course 4
86
Course 5
90
Student 2
USN: 200
Name: Student2
Semester: 4
Final Marks:
Course 1
90
Course 2
90
Course 3
90
Course 4
90
Course 5
90
```

```
Enter the name of student:
Student2
Enter the semester of student:
4
Enter marks of SEE:
Enter marks of course 1
90
Enter marks of course 2
Enter marks of course 3
90
Enter marks of course 4
90
Enter marks of course 5
Enter marks of CIE:
Enter marks of course: 1
45
Enter marks of course: 2
Enter marks of course: 3
45
Enter marks of course: 4
45
Enter marks of course: 5
45
The Marks And Details of Students Registered are:
Student 1
USN: 100
Name: Student!
Semester: 3
Final Marks:
Course 1
92
Course 2
95
Course 3
```

```
Enter the number of students:
Student 1
Enter the usn of student:
100
Enter the name of student:
Student!
Enter the semester of student:
Enter marks of SEE:
Enter marks of course
95
Enter marks of course
Enter marks of course 3
90
Enter marks of course 4
86
Enter marks of course 5
Enter marks of CIE:
Enter marks of course: 1
45
Enter marks of course: 2
Enter marks of course: 3
43
Enter marks of course: 4
43
Enter marks of course: 5
43
Student 2
Enter the usn of student:
200
Enter the name of student:
```

```
LAB 6
Package CIE program
 file Internals. joua: -
      import java util. *;
    public class Internals ?
       public int & iternals[]= new int [5];
        Scarner input : new Scarner (System in);
       public void Gret Details () {
           System. out. printly ("Enter marks of CIE: \");
              for (int i=1; j <=5; j++){
                System. out. printles ("Enter marks of course: "+i);
                    cint errals [j-1] = input. next Int ();
        som of the book of the state of the solution of
     package CIE;
      public clay Student ?
               public ant wen;
               public String name;
               public ent seun;
```

```
externals.java: -
 package see;
import jour etil. Scanner:
 Import CIE. *;
 public day externals extends Student &
       public unt sementer [] = new unt [5];
        Scanner in = new Scanner (System in);
  public void Enter Details (list i) [
       System out paintle ("Student "+i);
        System out print lu l'Enter the user of the student: (n);
       un = in next Int();
      Syctem. out. printle (Enter the name of the student: \n');
       name = in. next ();
       Sydem. out. paith ("Enter the seen of the student: \n");
        Sam = cir. next Ent ();
     System. out. println("Enter the marks of SEE: 'n');
                for ( int j=0; j <5; j++) {
                   System. out. print la l'Entre the marks ef courle + (j+1)
                  Sementer [j] = in next Int ();
```

```
marke java
package make;
 import CIE. *;
 import see . 4;
import jour util. ";
 class marks &
      public static void main (String args[]) {
           out no
           Scarnes in = new Scarner (System. in);
        System. out. printly ("Enter the number of student: 'n');
             n=in. next Int ();
       Internal [] 4 cie= new Internals [n];
       externals[] sem = new externals[n];
     to (int i=0; i(n; i++) {
            sem [i] = new externals (1;
             sem(i]. Entre Detail (i+1);
            cée (i] = new Internals ();
            cie[i]. Extetail (1;
    System. out. puintly ("The Marks and Details of Students Registered are: (");
for capat i = 0; i < n; i++) {
       Sy vem. out. paint les (" student "+ (j+1));
        Sy tem. out. printle ("USN" + sent j]. um);
        Sy et en out paintle ("Name: "+senEj]. name);
        Syclem. out. printle ("Semerter. "+ sem []]. sem);
    System. out. printles ("E.Final marks: \n");
    Sy tem out paintle ("Course"+ (i+1) + 6""(n'+ ((sen E)). Semente (1))
  forcint i=0; (25; i++) {
                          + cieli]. internals [i]);
         gy dem . out, println();
 3
```

```
Tell java:
package text;
import java. util *;
class std
String un, name;
  static int erediti[];
   Static double marks [];
 verid input (int n)
 Scanner se= new Scanner (Syctem. in);
 Sy tem. out. printer ("enter um and name:");
   uun = Sc. next Line();
  Syctem. out-paintle ("enter marks along with credit");
  for ( unt i=0 ; i < n; i+1)
    4 marks (i) = sc. text Double ();
       coudity (i)= se. next Int ();
       Sydem out printle();
     double calculate ( wit n)
      ant c, cred =0;
     double tot; total = 0.0;
      for ( int i=0; i < n ', i++)
         tol = marke[i];
         y (-101>=90).
                   e210;
                   elu y (40 >= 80)
                   (29;
                   else y (+ot >=70)
                    C=8',
                    elu y(+ot >=60)
```

```
C=7 ;
elu 4 (tot >= 50)
 C=6;
  else if (tol >=40)
C=4;
  elle
C=0;
  total = total + ( excedite[i]);
  and = and + andity (i);
  3
 total = total / cred;
 etum (total);
 1,
void display ( int n, doble Total)
 Sydem. orl. paintle ("neume of student: "+noune);
  Sytem. out. println ('un of Student: "+usn);
   Sytem. onl. paintle (" marker of stadent along with credits of
                            course ");
   for (unti=0; i<n; i++)
   System out paint en concerta Ei] + ", ", " udits [i]);
    Sycrem.out-println("sypa et extent: "+total):
   clar test ?
    public word main (String args [3)
    Scanner 3cz new Scanner (System. in);
       std obj=new.std();
       Sy tem out puintly l'enter no of course");
        ent n = 8 c. next Int ();
```

```
dj. evediti z new ent[n];
obj. mak: z new double [n];
obj. tiput(n);
double dotal = obj. (alculate(n);
obj. display (n, total);
}
```