



Internals - Notepad



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```
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();
        }

    }
}
```



```
package CIE;

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

```
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++) {
                System.out.println("Course " + (i+1) + "\n"+((sem[i].semester[i]/2)+cie[i].internals[i]));
            }
        }
    }
}
```

```
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++) {  
        System.out.println("Course " + (i+1) + "\n"+((sem[j].semester[i]/2)+cie[j].internals[i]));  
    }  
    System.out.println();  
    |  
  
}  
  
}  
}
```

```
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

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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&lt;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&lt;n;i++)

{

tot=marks[i];

if(tot&gt;=90)

c=10;

else if(tot&gt;=80)

c=9;

return c;

Test - Notepad

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```
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

90

Enter marks of course 3

90

Enter marks of course 4

90

Enter marks of course 5

90

Enter marks of CIE :

Enter marks of course : 1

45

Enter marks of course : 2

45

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:

2

Student 1

Enter the usn of student:

100

Enter the name of student:

Student!

Enter the semester of student:

3

Enter marks of SEE :

Enter marks of course 1

95

Enter marks of course 2

98

Enter marks of course 3

90

Enter marks of course 4

86

Enter marks of course 5

95

Enter marks of CIE :

Enter marks of course : 1

45

Enter marks of course : 2

46

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.java:-  
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 i = 1; i <= 5; i++) {

System.out.println("Enter marks of course : " + i);

internals[i-1] = input.nextInt();

}

}

}

Student.java:-

package CIE;

public class Student {

public int urn;

public String name;

public int sem;

}

externals.java :-

```
package sec;  
  
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 Enter Details(int i) {  
        System.out.println("Student "+i);  
        System.out.println("Enter the user of the Student:\n");  
        user = in.nextInt();  
        System.out.println("Enter the name of the student:\n");  
        name = in.next();  
        System.out.println("Enter the sem of the student:\n");  
        sem = in.nextInt();  
  
        System.out.println("Enter the marks of SEE : \n");  
  
        for (int j = 0; j < 5; j++) {  
            System.out.println("Enter the marks of course "+(j+1));  
            semester[j] = in.nextInt();  
        }  
    }  
}
```



marks.java

package marks;

import CIE.\*;

import sec.\*;

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 student: \n");

n=in.nextInt();

Internal[] cie = new Internal[n];

external[] sem = new external[n];

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

sem[i] = new external();

sem[i].EnterDetails(i+1);

cie[i] = new Internal();

cie[i].GetDetails();

}

System.out.println ("The Marks and Details of student 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] + cie[j].internals[i]));

System.out.println();

}

}

}

Test.java:-

package test;

import java.util.\*;

class std

{  
String un, name;  
static int credits[];  
static double marks[];

void input(int n)

{  
Scanner sc = new Scanner(System.in);  
System.out.println("enter un and name:");  
un = sc.nextLine();  
name = sc.nextLine();  
System.out.println("enter marks along with credit");  
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; tot = 0.0;

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

{  
tot = marks[i];

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 + (excredits[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("cun of student : "+cun);
    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.credit = new int[n];
```

```
obj.marks = new double[n];
```

```
obj.input(n);
```

```
double total = obj.calculate(n);
```

```
obj.display(n, total);
```

```
}
```

```
}
```

```
}
```