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Main.java

```
1 import java.util.Scanner;
2 class Student{
3     private String USN;
4     private String name;
5     private int sem;
6
7     void getstudentdata()
8     {
9         Scanner xx=new Scanner(System.in);
10        System.out.print("Enter the USN of the student : ");
11        USN=xx.next();
12        xx.nextLine();
13        System.out.print("Enter the name of the student : ");
14        name=xx.next();
15        xx.nextLine();
16        System.out.println("Enter the semester of the student
17        : ");
18        sem=xx.nextInt();
19    }
20    void printstudentdata()
21    {
22        System.out.println("The name of the student is : "
23        +name);
24        System.out.println("The USN of the student is : "+USN)
25        ;
26        System.out.println("The Semester of teh student is : "
27        +sem);
28    }
}
```



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Main.java

```
25    }
26
27    class Test extends Student{
28        private int cie[];
29        private int credits[];
30        private int n;
31
32        void setsize(int m)
33        {
34            n=m;
35            cie=new int[n];
36            credits=new int[n];
37        }
38        void getciemarks()
39        {
40            Scanner xx=new Scanner(System.in);
41            System.out.println("Enter the credits and cie marks
42            of each subject : ");
43            int i;
44            for(i=0;i<n;i++)
45            {
46                System.out.println("Enter the credits and marks of "
47                +(i+1)+" subject : ");
48                credits[i]=xx.nextInt();
49                cie[i]=xx.nextInt();
50            }
51            int returnciemarks(int i)
```

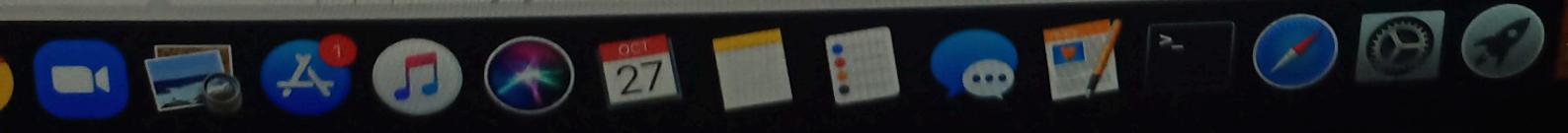


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SharpGraph#Main.java

Main.java

```
51     {
52         return cie[i];
53     }
54     int return_credits(int i)
55     {
56         return credits[i];
57     }
58 }
59
60 class Exams extends Test{
61     private int see[];
62     private int n1;
63
64     void setsize1(int m)
65     {
66         n1=m;
67         see=new int[n1];
68     }
69     void getseemarks()
70     {
71         Scanner xx=new Scanner(System.in);
72         System.out.println("Enter the see marks of each
73             subject : ");
74         int i;
75         for(i=0;i<n1;i++)
76         {
77             System.out.println("Enter the see marks of "+(i+1)
78             +" subject : ");
```



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Main.java

```
    +" subject : ");
77     see[i]=xx.nextInt();
78   }
79 }
80 int returnseemarks(int i)
81 {
82   return see[i];
83 }
84
85 }
86
87 class Result extends Exams{
88   private double result;
89   private int n;
90
91   Result()
92   {
93     Scanner xx=new Scanner(System.in);
94     getstudentdata();
95     System.out.println("Enter the number of subjects : ");
96     int i=xx.nextInt();
97     n=i;
98     setsize(i);
99     setsize1(i);
100    getciemarks();
101    getseemarks();
102  }
103  void calculateresult()
```

```
> javac -c Main.java
> java -classn
Enter the nu
45
Enter the US
Enter the na
Enter the se
4
Enter the nu
5
Enter the cre
Enter the cre
```



Main.java

```
103     void calculateresult()
104     {
105         result=0;
106         double temp=0;
107         double totalcredits=0;
108         for(int i=0;i<n;i++)
109         {
110             temp=temp+returnciemarks(i);
111             temp=temp+(returnseemarks(i)/2);
112             totalcredits=totalcredits+return_credits(i);
113             result=result+((temp*return_credits(i))/100);
114             temp=0;
115         }
116         result=(result/totalcredits)*10;
117     }
118     void printresult(int i)
119     {
120         System.out.println("The SGPA of the "+(i+1)+" student
121             is : "+result);
122     }
123
124 public class Main{
125     public static void main(String args[])
126     {
127         Scanner xx=new Scanner(System.in);
128         System.out.println("Enter the number of students : ");
129         int n=xx.nextInt();
```





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Main.java

```
124 public class Main{  
125     public static void main(String args[]){  
126         Scanner xx=new Scanner(System.in);  
127         System.out.println("Enter the number of students : ");  
128         int n=xx.nextInt();  
129         Result r[]=new Result[n];  
130         for(int i=0;i<n;i++)  
131         {  
132             r[i]=new Result();  
133             r[i].calculateresult();  
134         }  
135         for(int i=0;i<n;i++)  
136         {  
137             r[i].printresult(i);  
138         }  
139     }  
140 }  
141 }
```





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Sig

```
> javac -classpath .:/run_dir/junit-4.12.jar:target/dependency/* -  
  . Main.java  
> java -classpath .:/run_dir/junit-4.12.jar:target/dependency/* Ma  
n  
Enter the number of students :  
45  
Enter the USN of the student : 34  
Enter the name of the student : assd  
Enter the semester of the student :  
4  
Enter the number of subjects :  
5  
Enter the credits and cie marks of each subject :  
Enter the credits and marks of 1 subject :  
5  
45  
Enter the credits and marks of 2 subject :  
5  
65  
Enter the credits and marks of 3 subject :  
5  
67  
Enter the credits and marks of 4 subject :  
34  
34  
Enter the credits and marks of 5 subject :  
2  
4  
Enter the see marks of each subject :  
Enter the see marks of 1 subject :  
45  
Enter the see marks of 2 subject :
```



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Enter the credits and cie marks of each subject :

Enter the credits and marks of 1 subject :

5

45

Enter the credits and marks of 2 subject :

5

65

Enter the credits and marks of 3 subject :

5

67

Enter the credits and marks of 4 subject :

34

34

Enter the credits and marks of 5 subject :

2

4

Enter the see marks of each subject :

Enter the see marks of 1 subject :

45

Enter the see marks of 2 subject :

50

Enter the see marks of 3 subject :

67

Enter the see marks of 4 subject :

78

Enter the see marks of 5 subject :

89

I