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student.java

~/

```
1 import java.util.*;
2 class details
3 {
4     String usn;
5     String name;
6     int[] credit=new int[8];
7     int[] marks=new int[8];
8     int n;
9     int i;
10 void get_details()
11 {
12     Scanner s=new Scanner(System.in);
13     System.out.println("enter usn");
14     usn=s.next();
15     System.out.println("enter name");
16     name=s.next();
17     System.out.println("enter the no. of subjects");
18     n=s.nextInt();
19     System.out.println("enter the credits and marks for each subjects");
20     for(i=0;i<n;i++)
21     {
22         System.out.println("subject"+(i+1));
23         credit[i]=s.nextInt();
24         marks[i]=s.nextInt();
25     }
26 }
27 void display_details()
28 {
29     System.out.println("name="+name);
30     System.out.println("usn="+usn);
31     System.out.println("\t\tcredit \t marks ");
32     for(i=0;i<n;i++)
33     {
34         System.out.println("subject"+(i+1)+"\t "+ credit[i]+\t"+marks[i]);
35     }
36 }
37 void calculate_sgpa()
38 {
39     int total_credits=0;
40     int total_gradepoints=0;
41     for(i=0;i<n;i++)
42     {
43         int c=grade_point(marks[i]);
44         total_credits+=credit[i];
45         total_gradepoints+=credit[i]*c;
46     }
47     double sgpa=(double)total_gradepoints/total_credits;
48     System.out.println("the sgpa of "+name+" is"+sgpa);
49 }
```

```
50 int grade_point(int marks)
51 {
52     if(marks>=90){
53         return 10;
54     }
55     else if(marks>=80){
56         return 9;
57     }
58     else if(marks>=70){
59         return 8;
60     }
61     else if(marks>=60){
62         return 7;
63     }
64     else if(marks>=50){
65         return 6;
66     }
67     else if(marks>=40){
68         return 5;
69     }
70     else {
71         return 0;
72     }
73 }
74 }
75 class student
76 {
77     public static void main(String args[])
78     {
79         details m=new details();
80         m.get_details();
81         m.display_details();
82         m.calculate_sgpa();
83     }
84 }
```

```
bmsccecse@bmsccecse-HP-Elite-Tower-800-G9-Desktop-PC: ~  
bmsccecse@bmsccecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ 240  
240: command not found  
bmsccecse@bmsccecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ javac student.java  
bmsccecse@bmsccecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ java student  
enter usn  
240  
enter name  
pramitha  
enter the no. of subjects  
8  
enter the credits and marks for each subjects  
subject1  
4 99  
subject2  
4 97  
subject3  
3 95  
subject4  
3 94  
subject5  
3 85  
subject6  
1 94  
subject7  
1 97  
subject8  
1 93  
name=pramitha  
usn=240  


|          | credit | marks |
|----------|--------|-------|
| subject1 | 4      | 99    |
| subject2 | 4      | 97    |
| subject3 | 3      | 95    |
| subject4 | 3      | 94    |
| subject5 | 3      | 85    |
| subject6 | 1      | 94    |
| subject7 | 1      | 97    |
| subject8 | 1      | 93    |

  
the sgpa of pramitha is9.85  
bmsccecse@bmsccecse-HP-Elite-Tower-800-G9-Desktop-PC:~$
```