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CAUsers\User\Desktop\labprog2.java - Notepad++
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1 import java.util.Scanner;
2
3
4 class Student
5 {
6     private String usn;
7     private String name;
8     private int credits[];
9     private double marks[];
10    private int n;
11    private double sgpa;
12    private double totalcredits;
13
14    void getdata()
15    {
16        int i;
17        Scanner input=new Scanner(System.in);
18        System.out.println("Enter the number of subjects : ");
19        n=input.nextInt();
20        credits=new int[n];
21        marks=new double[n];
22        System.out.println("Enter the details of student : ");
23        System.out.println("Enter the usn of student : ");
24        usn=input.next();
25        input.nextLine();
26        System.out.println("Enter the name of student : ");
27        name=input.next();
28        System.out.println("Enter the credits of subject and marks : ");
29        totalcredits=0;
30        for(i=0;i<n;i++)
31        {
32            System.out.print("Enter the credit and marks of subject  ");
33            System.out.println(i+1);
34            credits[i]=input.nextInt();
35            totalcredits=totalcredits+credits[i];
36            if(totalcredits>25)
37            {
38                System.out.println("Total credits are more than 25 enter again ");
39                totalcredits=totalcredits-credits[i];
40                i--;
41            }
42            else
43                marks[i]=input.nextDouble();
44        }
45    }
46    void printdata()
```

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45 }
46 void printdata()
47 {
48     System.out.println("The details of student : ");
49     System.out.print("USN of student : ");
50     System.out.println(usn);
51     System.out.print("Name of student : ");
52     System.out.println(name);
53     System.out.print("SGPA of student : ");
54     System.out.println(sgpa);
55 }
56 void calculate()
57 {
58     int i;
59     int x;
60     double sum=0,total=0;
61     for(i=0;i<n;i++)
62     {
63         if(marks[i]>=90)
64             x=10;
65         else if(marks[i]>=80)
66             x=9;
67         else if(marks[i]>=70)
68             x=8;
69         else if(marks[i]>=60)
70             x=7;
71         else if(marks[i]>=50)
72             x=6;
73         else if(marks[i]>=40)
74             x=5;
75         else
76             x=0;
77         sum=sum + credits[i]*x;
78         total=total+credits[i];
79     }
80     sgpa=sum/total;
81 }
82
83 public class labprog2{
84     public static void main(String[] args){
85         Student s1=new Student();
86         s1.getdata();
87         s1.calculate();
88         s1.printdata();
89     }
90 }
```

```
Command Prompt
Microsoft Windows [Version 10.0.14393]
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C:\Users\User>cd Desktop

C:\Users\User\Desktop>javac labprog2.java

C:\Users\User\Desktop>java labprog2
Enter the number of subjects ;
5
Enter the details of student :
Enter the usn of student :
1BM19CS053
Enter the name of student :
Divyanshu
Enter the credits of subject and marks :
Enter the credit and marks of subject 1
4
87
Enter the credit and marks of subject 2
5
96
Enter the credit and marks of subject 3
3
69
Enter the credit and marks of subject 4
4
85
Enter the credit and marks of subject 5
18
```

```
Command Prompt

Enter the credits of subject and marks :
Enter the credit and marks of subject 1
4
87
Enter the credit and marks of subject 2
5
96
Enter the credit and marks of subject 3
3
69
Enter the credit and marks of subject 4
4
85
Enter the credit and marks of subject 5
18
Total credits are more than 25 enter again
Enter the credit and marks of subject 5
4
78
The details of student :
USN of student : 1BM19CS053
Name of student : Divyanshu
SGPA of student : 8.75

C:\Users\User\Desktop>
```