

LAB-2 PROGRAM

INPUT:

```
C:\Users\91944\OneDrive\Desktop\OOLAB\Lab_2\Student.java - Sublime Text (UNREGISTERED)
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xml1.py x xml2.py x week5.py x week4-1.py x Student.java x

1  import java.util.Scanner;
2
3  class Studentmain
4  {
5      private int n;
6      private String usn;
7      private String name;
8      private int cred[];
9      private float mks[];
10     private int gp[];
11     private float sgpa;
12     Scanner ss = new Scanner(System.in);
13
14     Studentmain()
15     {
16         System.out.print("Enter the number of subjects : ");
17         n = ss.nextInt();
18         cred = new int[n];
19         mks = new float[n];
20         gp = new int[n];
21     }
22
23     void getStudData()
24     {
25         int i;
26         System.out.println("\n<-----ENTER THE STUDENT DETAILS----->\n");
27         System.out.println("Enter the Student USN : ");
28         usn = ss.next();
29         System.out.println("\nEnter the Student Name : ");
30         name = ss.next();
31         System.out.println("\nEnter the Credits and Marks in each of the 5 Subjects :\n");
32
33         for(i = 0; i < n; i++)
34         {
35             System.out.print("Enter the Credits of Subject "+(i+1)+" : ");
36             cred[i] = ss.nextInt();
37             System.out.print("Enter the Marks scored in Subject "+(i+1)+" : ");
38             mks[i] = ss.nextFloat();
39             System.out.println();
40         }
41
42         void compute()
43         {
44             int i;
45             float total;
46             int totcred;
47             total = 0;
48             totcred = 0;
49             for(i = 0; i < n; i++)
50             {
51                 if (mks[i] >= 90 && mks[i] <= 100)
52                     gp[i] = 10;
53                 else if (mks[i] >= 80)
54                     gp[i] = 9;
55                 else if (mks[i] >= 70)
56                     gp[i] = 8;
57                 else if (mks[i] >= 60)
58                     gp[i] = 7;
59                 else if (mks[i] >= 50)
60                     gp[i] = 5;
61                 else if (mks[i] >= 40)
62                     gp[i] = 4;
63                 else
64                     gp[i] = 0;
65             }
66
67             for(i = 0; i < n; i++)
68             {
69                 total += ((float)gp[i] * cred[i]);
70                 totcred += cred[i];
71             }
72             sgpa = (total / totcred);
73         }
74
75         void display()
76         {
77             int i;
78             System.out.println("\n<-----STUDENT DETAILS----->\n");
79             System.out.println("Student USN : " +usn);
80             System.out.println("Student Name : " +name);
81             System.out.println("Student SGPA : " +sgpa);
82             System.out.println("\nCREDITS\tMARKS\tGRADE-POINTS\n");
83             for(i = 0; i < n; i++)
84             {
85                 System.out.println(cred[i]+\t+mks[i]+\t+gp[i]);
86             }
87             System.out.println("\n<----->");
88         }
89     }
90 }
```

```

91  class Student
92  {
93      public static void main(String[] args)
94      {
95          Studentmain s1 = new Studentmain();
96          s1.getStudData();
97          s1.compute();
98          s1.display();
99      }
100 }

```

OUTPUT:

```

C:\Users\91944\OneDrive\Desktop\00JLAB\Lab_2>javac Student.java

C:\Users\91944\OneDrive\Desktop\00JLAB\Lab_2>java Student
Enter the number of subjects : 5

<-----ENTER THE STUDENT DETAILS----->

Enter the Student USN :
1bm19cs004

Enter the Student Name :
Adarsh

Enter the Credits and Marks in each of the 5 Subjects :

Enter the Credits of Subject 1 : 5
Enter the Marks scored in Subject 1 : 100

Enter the Credits of Subject 2 : 4
Enter the Marks scored in Subject 2 : 90

Enter the Credits of Subject 3 : 4
Enter the Marks scored in Subject 3 : 85

Enter the Credits of Subject 4 : 4
Enter the Marks scored in Subject 4 : 70

Enter the Credits of Subject 5 : 3
Enter the Marks scored in Subject 5 : 90

<-----STUDENT DETAILS----->

Student USN : 1bm19cs004
Student Name : Adarsh
Student SGPA : 9.4

CREDITS  MARKS   GRADE-POINTS
5        100.0   10
4        90.0    9
4        85.0    8
4        70.0    8
3        90.0   10

<----->

C:\Users\91944\OneDrive\Desktop\00JLAB\Lab_2>

```