

## **STUDENT DETAILS ( SGPA ) LAB-2 / 3-11-2025**

J StudentMain.java > Java > StudentMain

```
1 import java.util.Scanner;
2 class Student {
3     String usn;
4     String name;
5     int n;
6     int credits[];
7     int marks[];
8     void acceptDetails() {
9         Scanner sc = new Scanner(System.in);
10        System.out.print("Enter USN: ");
11        usn = sc.nextLine();
12        System.out.print("Enter Name: ");
13        name = sc.nextLine();
14        System.out.print("Enter number of subjects: ");
15        n = sc.nextInt();
16        credits = new int[n];
17        marks = new int[n];
18        for (int i = 0; i < n; i++) {
19            System.out.print("Enter credits for subject " + (i + 1) + ": ");
20            credits[i] = sc.nextInt();
21            System.out.print("Enter marks for subject " + (i + 1) + ": ");
22            marks[i] = sc.nextInt();
23        }
24    }
25    void displayDetails() {
26        System.out.println("\n--- STUDENT DETAILS ---");
27        System.out.println("USN : " + usn);
28        System.out.println("Name : " + name);
29        System.out.println("\nSub\tCredits\tMarks\tGrade Point");
30
31        for (int i = 0; i < n; i++) {
32            System.out.println((i + 1) + "\t" + credits[i] + "\t" + marks[i] + "\t" + gradePoint(marks[i]));
33        }
34    }
35    double sgpa = calculateSGPA();
36    System.out.printf("\nSGPA = %.2f\n", sgpa);
37 }
38 int gradePoint(int m) {
39     if (m >= 90) return 10;
40     else if (m >= 80) return 9;
41     else if (m >= 70) return 8;
42     else if (m >= 60) return 7;
43     else if (m >= 55) return 6;
44     else if (m >= 50) return 5;
45     else if (m >= 45) return 4;
46     else return 0;
47 }
```

```

48     double calculateSGPA() {
49         int totalCredits = 0;
50         int weightedSum = 0;
51         for (int i = 0; i < n; i++) {
52             int gp = gradePoint(marks[i]);
53             weightedSum += gp * credits[i];
54             totalCredits += credits[i];
55         }
56         if (totalCredits == 0) return 0.0;
57         return (double) weightedSum / totalCredits;
58     }
59 }
60 public class StudentMain {
61     Run main | Debug main | Run | Debug
62     public static void main(String[] args) {
63         Student s = new Student();
64         s.acceptDetails();
65         s.displayDetails();
66     }

```

## Output :

```

PS C:\Users\student\Desktop\1WN24CS120> cd ..
Enter USN: 1WN24CS120
Enter Name: Hrishikesh
Enter number of subjects: 3
Enter credits for subject 1: 3
Enter marks for subject 1: 93
Enter credits for subject 2: 4
Enter marks for subject 2: 95
Enter credits for subject 3: 3
Enter marks for subject 3: 94

--- STUDENT DETAILS ---
USN : 1WN24CS120
Name : Hrishikesh

Sub      Credits Marks   Grade Point
1        3       93     10
2        4       95     10
3        3       94     10

SGPA = 10.00
PS C:\Users\student\Desktop\1WN24CS120>

```