

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

```
StudentMain.java > Java > StudentMain
1
2 import java.util.Scanner;
3 class Student {
4     String usn;
5     String name;
6     int n;
7     int credits[];
8     int marks[];
9     void acceptDetails() {
10        Scanner sc = new Scanner(System.in);
11        System.out.print("Enter USN: ");
12        usn = sc.nextLine();
13        System.out.print("Enter Name: ");
14        name = sc.nextLine();
15        System.out.print("Enter number of subjects: ");
16        n = sc.nextInt();
17        credits = new int[n];
18        marks = new int[n];
19        for (int i = 0; i < n; i++) {
20            System.out.print("Enter credits for subject " + (i + 1) + ": ");
21            credits[i] = sc.nextInt();
22            System.out.print("Enter marks for subject " + (i + 1) + ": ");
23            marks[i] = sc.nextInt();
24        }
25    }
26    void displayDetails() {
27        System.out.println("\n--- STUDENT DETAILS ---");
28        System.out.println("USN : " + usn);
29        System.out.println("Name : " + name);
30        System.out.println("\nSub\tCredits\tMarks\tGrade Point");
31
32        for (int i = 0; i < n; i++) {
33            System.out.println((i + 1) + "\t" + credits[i] + "\t" + marks[i] + "\t" + gradePoint(marks[i]));
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 {
    Run main | Debug main | Run | Debug
61  public static void main(String[] args) {
62  Student s = new Student();
63  s.acceptDetails();
64  s.displayDetails();
65  }
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>

```