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```
import java.util.Scanner;
class Student {
    String usn;
    String name;
    int credits[] = new int[100];
    int marks[] = new int[100];
    void set(int n) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter USN: ");
        usn = sc.next();
        System.out.print("Enter Name: ");
        name = sc.next();
        for (int i = 0; i < n; i++) {
    System.out.println("Enter the credit and marks of the subject " + (i + 1) + " one by one:");
    credits[i] = sc.nextInt();</pre>
             marks[i] = sc.nextInt();
        }
    ł
    void display(int n) {
        System.out.println("USN: " + usn);
        System.out.println("Name: " + name);
        for (int i = 0; i < n; i++) {
             System.out.println("Subject " + (i + 1) + " Credits: " + credits[i] + ", Marks: " + marks[i]);
    1
    void calculate(int n) {
        int grade = 0;
        int total = 0;
        int totalCredits = 0;
        for (int i = 0; i < n; i++) {
             if (marks[i] >= 90) {
                 grade = 10;
             } else if (marks[i] >= 80) {
               grade = 9;
```

```
for (int i = 0; i < n; i++) {
            if (marks[i] >= 90) {
                grade = 10;
            } else if (marks[i] >= 80) {
                grade = 9;
            } else if (marks[i] >= 70) {
                grade = 8;
            } else if (marks[i] >= 60) {
                grade = 7;
            } else if (marks[i] >= 50) {
                grade = 6;
            } else {
                grade = 0;
            }
            total += (grade * credits[i]);
            totalCredits += credits[i];
        }
        double sgpa = (double) total / totalCredits;
        System.out.println("The SGPA is: " + sgpa);
}
public class SGPA {
    public static void main(String[] args) {
        Student s1 = new Student();
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number of subjects: ");
        int n = sc.nextInt();
        s1.set(n);
        s1.display(n);
        s1.calculate(n);
}
```

```
C:\Users\shett\OneDrive\Documents\javaclasslab>javac SGPA.java
C:\Users\shett\OneDrive\Documents\javaclasslab>java SGPA
Enter the number of subjects:
8
Enter USN: 234
Enter Name: xyz
Enter the credit and marks of the subject 1 one by one:
Д
91
Enter the credit and marks of the subject 2 one by one:
Д
85
Enter the credit and marks of the subject 3 one by one:
90
Enter the credit and marks of the subject 4 one by one:
2
85
Enter the credit and marks of the subject 5 one by one:
3
97
Enter the credit and marks of the subject 6 one by one:
П
90
Enter the credit and marks of the subject 7 one by one:
Π,
93
Enter the credit and marks of the subject 8 one by one:
П
96
USN: 234
Name: xyz
Subject 1 Credits: 4, Marks: 91
Subject 2 Credits: 4, Marks: 85
Subject 3 Credits: 3, Marks: 90
Subject 4 Credits: 3, Marks: 85
Subject 5 Credits: 3, Marks: 97
Subject 6 Credits: 1, Marks: 90
Subject 7 Credits: 1, Marks: 93
Subject 8 Credits: 1, Marks: 96
The SGPA is: 9.65
```