```
import java.util.Scanner;

class Student {
    String usn;
    String name;
    int[] credits;
    int[] marks;

    Student() {
        Scanner sc = new Scanner(System.in);

        System.out.print("Enter USN: ");
        this.usn = sc.next();

        System.out.print("Enter Name: ");
        this.name = sc.next();

        System.out.print("Enter the number of courses: ");
        int numCourses = sc.nextInt();

        credits = new int[numCourses];
        marks = new int[numCourses];

        System.out.println("Enter Credits of Courses:");
        for (int i = 0; i < credits.length; i++) {
```

```
        credits[i] = sc.nextInt();
    }

    System.out.println("Enter Marks obtained:");
    for (int i = 0; i < marks.length; i++) {
        marks[i] = sc.nextInt();
    }

    sc.close(); // Closing Scanner to prevent resource leak
}

void calculateSGPA() {
    int total = 0;
    int totalCredits = 0;

    for (int i = 0; i < credits.length; i++) {
        int grade = marks[i] / 10;
        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 if (marks[i] >= 40) grade = 5;
        else grade = 0; // Handle failed subject

        total += grade * credits[i];
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            totalCredits += credits[i];
        }

        float sgpa = (float) total / totalCredits;
        System.out.println(this.name + " got");
        System.out.printf("SGPA: %.2f%n", sgpa);
    }
}

public class Main {
    public static void main(String[] args) {
        Student student = new Student();
        student.calculateSGPA();
    }
}
```

```
Enter USN: 1bm
Enter Name: ar
Enter the number of courses: 3
Enter Credits of Courses:
3
4
5
Enter Marks obtained:
15
34
65
ar got
SGPA: 2.92

=== Code Execution Successful ===
```