```java
import java.util.Scanner;


class Student1{
    Scanner sc = new Scanner(System.in);
    String USN;
    String Name;
    int credits[] = new int[5];
    float marks[] = new float[5];
    int points[] = new int[5];
    float SGPA;
    int totalCredits = 0;

    void getDetails(){
        System.out.println("Enter student USN: ");
        USN = sc.nextLine();
        System.out.println("Enter student Name: ");
        Name = sc.nextLine();
        for(int i=0;i<5;i++){
            System.out.println("Enter CREDITS for Subject " + (i+1) + ": ");
            credits[i] = sc.nextInt();
            totalCredits += credits[i];
            System.out.println("Enter MARKS for Subject " + (i+1) + ": ");
            marks[i] = sc.nextFloat();
        }
    }

    void showDetails(){
        System.out.println("Student USN: " + USN);
        System.out.println("Enter student name: " + Name);
        for(int i=0;i<5;i++){
            System.out.println("Subject " + (i+1) + " - Credits: " + credits[i] + " - Marks: " + marks[i]);
        }
        System.out.println("SGPA of " + Name + " is: " + (float)(SGPA/totalCredits));
    }

    void calcSGPA(){

        for(int i = 0;i<5;i++){
            if(marks[i] > 100){
                System.out.println("Error: Marks are above 100");
                return;
            }else if(marks[i] >= 90){
```

```java
            System.out.println("Subject " + (i+1) + " - Credits: " + credits[i] + " - Marks: " + marks[i]);
        }
        System.out.println("SGPA of " + Name + " is: " + (float)(SGPA/totalCredits));
    }

    void calcSGPA(){


        for(int i = 0;i<5;i++){
            if(marks[i] > 100){
                System.out.println("Error: Marks are above 100");
                return;
            }else if(marks[i] >= 90){
                points[i] = 10;
            }else if(marks[i] >= 80){
                points[i] = 9;
            }else if(marks[i] >= 70){
                points[i] = 8;
            }else if(marks[i] >= 60){
                points[i] = 7;
            }else if(marks[i] >= 50){
                points[i] = 5;
            }else if(marks[i] >= 40){
                points[i] = 4;
            }else{
                points[i] = 0;
            }

            SGPA += (points[i]*credits[i]);
        }
    }


}

public class Student{
    public static void main(String args[]) {
        Student1 stu1 = new Student1();
        stu1.getDetails();
        stu1.calcSGPA();
        stu1.showDetails();

    }
}
```

```
Command Prompt
C:\Users\eshan>d:

D:\>cd java

D:\java>java Student
Enter student USN:
1bm18cs131
Enter student Name:
eshan
Enter CREDITS for Subject 1:
3
Enter MARKS for Subject 1:
78
Enter CREDITS for Subject 2:
4
Enter MARKS for Subject 2:
79
Enter CREDITS for Subject 3:
2
Enter MARKS for Subject 3:
68
Enter CREDITS for Subject 4:
5
Enter MARKS for Subject 4:
76
Enter CREDITS for Subject 5:
5
Enter MARKS for Subject 5:
80
Student USN: 1bm18cs131
Enter student name: eshan
Subject 1 - Credits: 3 - Marks: 78.0
Subject 2 - Credits: 4 - Marks: 79.0
Subject 3 - Credits: 2 - Marks: 68.0
Subject 4 - Credits: 5 - Marks: 76.0
Subject 5 - Credits: 5 - Marks: 80.0
SGPA of eshan is: 8.157895

D:\java>
```