```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));
    }
```

```java
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){
            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]);
    }
}
```

```
        ʃ
    }

}

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

    }
}
```

```
Command Prompt                                                    ─    □    ✕

Microsoft Windows [Version 10.0.19041.508]
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C:\Users\Jelani>cd java

C:\Users\Jelani\java>java Student
Enter student USN:
1bm18cs132
Enter student Name:
Ubaid
Enter CREDITS for Subject 1:
5
Enter MARKS for Subject 1:
60
Enter CREDITS for Subject 2:
4
Enter MARKS for Subject 2:
78
Enter CREDITS for Subject 3:
4
Enter MARKS for Subject 3:
76
Enter CREDITS for Subject 4:
4
Enter MARKS for Subject 4:
56
Enter CREDITS for Subject 5:
3
Enter MARKS for Subject 5:
80
Student USN: 1bm18cs132
Enter student name: Ubaid
Subject 1 - Credits: 5 - Marks: 60.0
Subject 2 - Credits: 4 - Marks: 78.0
Subject 3 - Credits: 4 - Marks: 76.0
Subject 4 - Credits: 4 - Marks: 56.0
Subject 5 - Credits: 3 - Marks: 80.0
SGPA of Ubaid is: 7.3
```