```java
import java.util.Scanner;
class Student{
        String usn;
        String name;
        int[] credits;
        int[] marks;
        int no_of_subjects = 3;

void details(){
Scanner sc = new Scanner (System.in);

System.out.println("Enter USN:");
usn = sc.nextLine();
System.out.println("Enter name:");
name = sc.nextLine();
credits = new int[no_of_subjects];
marks = new int[no_of_subjects];
for(int i=0;i<no_of_subjects;i++){
System.out.println("Enter credits for" + (i+1) + "subject");
credits[i] = sc.nextInt();
System.out.println("Enter marks for" + (i+1) + "subject");
marks[i] = sc.nextInt();
}
}

void display(){
System.out.println("\n Student Details: \n");
System.out.println("USN:" + usn);
System.out.println("Name:" + name);
System.out.println("Subjects & Credits:");
for(int i = 0;i<no_of_subjects;i++){
System.out.println("Subject " + (i+1) + ":Credits = " + credits[i] + ",Marks = " + marks[i]);
}
System.out.println("SGPA: " + calculate());
}

double calculate(){
int totalcredits = 0;
double grade_points = 0.0;
for(int j=0;j<no_of_subjects;j++){
int gradepoints = calcgp(marks[j]);
grade_points += gradepoints * credits[j];
totalcredits += credits[j];
}
return grade_points/totalcredits;
}
```

```java
int calcgp(int marks){
if (marks>=90){
return 10;
}
else if (marks>=80){
return 9;
}
else if (marks>=70){
return 8;
}
else if (marks>=60){
return 7;
}
else if (marks>=50){
return 6;
}
else if (marks>=40){
return 5;
}
else{
return 0;
}
}

public static void main(String [] args){
Student student1 = new Student();
student1.details();
student1.display();
Student student2 = new Student();
student2.details();
student2.display();
Student student3 = new Student();
student3.details();
student3.display();
}}
```

```
C:\Users\Admin\Desktop>javac Student.java

C:\Users\Admin\Desktop>java Student
Enter USN:
1BM23CS004
Enter name:
Aarush Garg
Enter credits for1subject
4
Enter marks for1subject
90
Enter credits for2subject
3
Enter marks for2subject
87
Enter credits for3subject
3
Enter marks for3subject
90

 Student Details:

USN:1BM23CS004
Name:Aarush Garg
Subjects & Credits:
Subject 1:Credits = 4,Marks = 90
Subject 2:Credits = 3,Marks = 87
Subject 3:Credits = 3,Marks = 90
SGPA: 9.7
Enter USN:
1BM23CS012
Enter name:
Ashish Solanki
Enter credits for1subject
4
Enter marks for1subject
89
Enter credits for2subject
3
Enter marks for2subject
78
Enter credits for3subject
3
Enter marks for3subject
89
```

```
 Student Details:

USN:1BM23CS012
Name:Ashish Solanki
Subjects & Credits:
Subject 1:Credits = 4,Marks = 89
Subject 2:Credits = 3,Marks = 78
Subject 3:Credits = 3,Marks = 89
SGPA: 8.7
Enter USN:
1BM23CS055
Enter name:
Aryan Navlani
Enter credits for1subject
4
Enter marks for1subject
7
Enter credits for2subject
3
Enter marks for2subject
90
Enter credits for3subject
3
Enter marks for3subject
89

 Student Details:

USN:1BM23CS055
Name:Aryan Navlani
Subjects & Credits:
Subject 1:Credits = 4,Marks = 7
Subject 2:Credits = 3,Marks = 90
Subject 3:Credits = 3,Marks = 89
SGPA: 5.7
```