```java
import java.util.Scanner;
class Student{

    int i,n,res1=0,res2=0;
    double res;
    String usn;
    String name;
    int credits[];
    double marks[];
    int gp[];

    void getdata(){
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number of subjects");
        n=sc.nextInt();
        credits=new int[n];
        marks=new double[n];
        gp=new int[n];
        System.out.println("Enter your usn no:");
        usn=sc.next();
        System.out.println("Enter your name:");
        name=sc.next();
        for(i=0;i<n;i++){
            System.out.println("Enter your credits for subject:");
            credits[i]=sc.nextInt();
            System.out.println("Enter your marks out of 100 in subject:");
            marks[i]=sc.nextDouble();
        }


    }
```

```java
void printdata(){
    System.out.println("Student details:");
    System.out.println("USN:"+usn);
    System.out.println("Name:"+name);
    for(i=0;i<n;i++){
        System.out.println("your credits for subject:"+credits[i]);
        System.out.println("your marks out of 100 in subject:"+marks[i]);
    }
}
void sgpa(){
    for(i=0;i<n;i++){
        if(marks[i]<=100 && marks[i]>=90)
            gp[i]=10;
        else if(marks[i]>=80)
            gp[i]=9;
        else if(marks[i]>=70)
            gp[i]=8;
        else if(marks[i]>=60)
            gp[i]=7;
        else if(marks[i]>=50)
            gp[i]=6;
        else if(marks[i]>=40)
            gp[i]=4;
        else if(marks[i]<40)
            gp[i]=0;
    }
    for(i=0;i<n;i++)
        res1+=credits[i];
    for(i=0;i<n;i++){
        res2+=(credits[i]*gp[i]);
    }
```

```java
        //res=(double)(res2/res1);

        System.out.println("SGPA:"+(double)res2/res1);

    }

}

class Testj{


    public static void main(String[] args) {

        Student stu=new Student();

        stu.getdata();

        stu.printdata();

        stu.sgpa();

    }



}
```

```
C:\windows\system32\cmd.exe                                                            —  □  ✕

D:\Java programs>javac Test.java

D:\Java programs>java Testj
Enter the number of subjects
3
Enter your usn no:
1BM19CS019
Enter your name:
ANSH
Enter your credits for subject:
4
Enter your marks out of 100 in subject:
56
Enter your credits for subject:
4
Enter your marks out of 100 in subject:
78
Enter your credits for subject:
5
Enter your marks out of 100 in subject:
67
Student details:
USN:1BM19CS019
Name:ANSH
your credits for subject:4
your marks out of 100 in subject:56.0
your credits for subject:4
your marks out of 100 in subject:78.0
your credits for subject:5
your marks out of 100 in subject:67.0
SGPA:7.0

D:\Java programs>
```