```java
import java.util.Scanner;
class Student{
    int i,n,sum1=0,sum2=0;
    String usn;
    String name;
    double res;
    int credits[];
    double marks[];
    int score[];

    void inputdata(){
        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];
        score=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();
        }
    }
    void outputdata(){
        System.out.print("<-----------Student Details:---------->\n");
        System.out.print("USN ="+usn+"\n");
        System.out.print("Name ="+name+"\n");
```

```java
        System.out.print("Name ="+name+"\n");
        for(i=0;i<n;i++){
            System.out.println("your credits for subject ="+credits[i]+"\n");
            System.out.println("your marks out of 100 in subject ="+marks[i]+"\n");
        }
    }
    void sgpa(){
        for(i=0;i<n;i++){
            if(marks[i]<=100 && marks[i]>=90)
                score[i]=10;
            else if(marks[i]>=80)
                score[i]=9;
            else if(marks[i]>=70)
                score[i]=8;
            else if(marks[i]>=60)
                score[i]=7;
            else if(marks[i]>=50)
                score[i]=6;
            else if(marks[i]>=40)
                score[i]=4;
            else if(marks[i]<40)
                score[i]=0;
        }
        for(i=0;i<n;i++)
            sum1=sum1+credits[i];
        for(i=0;i<n;i++){
            sum2=sum2+(credits[i]*score[i]);
        }
        res=((double)sum2/sum1);
        System.out.println("Your SGPA is ="+res+"\n");
    }
}
class Total{
    public static void main(String[] args) {
        Student stud=new Student();
        stud.inputdata();
        stud.outputdata();
        stud.sgpa();
    }
}
```

```
C:\Users\AKSHAY RASTOGI>cd desktop

C:\Users\AKSHAY RASTOGI\Desktop>cd java prog

C:\Users\AKSHAY RASTOGI\Desktop\java prog>javac Total.java

C:\Users\AKSHAY RASTOGI\Desktop\java prog>java Total
Enter the number of subjects
3
Enter your usn no=
1BM19CS012
Enter your name=
Akshay
Enter your credits for subject=
3
Enter your marks out of 100 in subject=
89
Enter your credits for subject=
4
Enter your marks out of 100 in subject=
78
Enter your credits for subject=
3
Enter your marks out of 100 in subject=
78
<-----------Student Details:----------->
USN =1BM19CS012
Name =Akshay
your credits for subject =3

your marks out of 100 in subject =89.0

your credits for subject =4

your marks out of 100 in subject =78.0

your credits for subject =3

your marks out of 100 in subject =78.0

Your SGPA is =8.3

C:\Users\AKSHAY RASTOGI\Desktop\java prog>
```