```java
import java.util.*;
class Student
{
    private String name;
    private String usn;
    private int n;
    private int sum;
    private int[] credits;
    private int[] score;
    private double[] marks;

    Student()
    {
        sum=0;
    }

    void getdata()
    {
        Scanner xx= new Scanner(System.in);
        System.out.println("enter name");
        name = xx.nextLine();
        System.out.println("enter usn");
        usn = xx.next();
        System.out.println("enter no of subjects");
        n = xx.nextInt();
        credits=new int[n];
        marks=new double[n];
        score=new int[n];
        int i;
        for(i=0;i<n;i++)
        {
            System.out.println("enter credits for subject "+(i+1));
            credits[i]= xx.nextInt();
            System.out.println("enter marks for subject "+(i+1)+"(below 100)");
            marks[i]= xx.nextDouble();
            if(marks[i]>=90 && marks[i]<100)
            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]=5;
            else if(marks[i]>=40)
            score[i]=4;
            else score[i]=0;
            sum=sum+credits[i];
```

```java
            else if(marks[i]>=60)
                score[i]=7;
            else if(marks[i]>=50)
                score[i]=5;
            else if(marks[i]>=40)
                score[i]=4;
            else score[i]=0;
            sum=sum+credits[i];
        }
    }

    private void calc(int[] credits, int[] score, int sum)
    {
        int i;
        double sgpa,total=0.0;
        for(i=0;i<n;i++)
        {

            total= total+ (credits[i]*score[i]);
        }
        sgpa =total/sum;
        System.out.printf("Sgpa is %.2f",sgpa);
    }
    void printdata()
    {
        System.out.println("Name = "+name);
        System.out.println("Usn = "+usn);
        int i;
        for(i=0;i<n;i++)
        {
            System.out.println("Subject "+(i+1));
            System.out.println("Credits = "+credits[i]+"   Marks = "+marks[i]);
        }

        calc(credits,score,sum);
    }
}

public class lab3
{
    public static void main(String[] args)
    {
        Student s1=new Student();
        s1.getdata();
        s1.printdata();
    }
}
```

```
enter name
Anisha Nair
enter usn
1BM19CS018
enter no of subjects
3
enter credits for subject 1
5
enter marks for subject 1(below 100)
90
enter credits for subject 2
5
enter marks for subject 2(below 100)
88
enter credits for subject 3
4
enter marks for subject 3(below 100)
100
Name = Anisha Nair
Usn = 1BM19CS018
Subject 1
Credits = 5    Marks = 90.0
Subject 2
Credits = 5    Marks = 88.0
Subject 3
Credits = 4    Marks = 100.0
Sgpa is 9.64


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(program exited with code: 0)
Press return to continue
```