```java
import java.util.Scanner;
class Student
{
        String usn;
        String name;
        int n;
        int credits[]=new int[100];
        int marks[]=new int[100];
        double sgpa=0.0;
        double g[]=new double[100];
        void accept()
        {
                Scanner sc=new Scanner(System.in);
                System.out.println("enter number of subjects");
                n=sc.nextInt();
                System.out.println("enter the usn and name of student");
                usn=sc.next();
                name=sc.next();
                System.out.println("enter credits");
                for(int i=0;i<n;i++)
                credits[i]=sc.nextInt();
                System.out.println("enter marks");
                for(int i=0;i<n;i++)
                marks[i]=sc.nextInt();
        }
        void display()
        {
        System.out.println("usn:"+usn);
        System.out.println("name:"+name);
        System.out.println("credits:");
        for(int i=0;i<n;i++)
                System.out.println(credits[i]);
        System.out.println("marks:");
        for(int i=0;i<n;i++)
                System.out.println(marks[i]);
        }
```

```java
    double gsum=0.0;
    void calcsgpa()
    {
    for(int i=0;i<n;i++)
    {
            if(marks[i]>90)
            g[i]=10.0;
            else if(marks[i]>=75 && marks[i]<=89)
            g[i]=9.0;
            else if(marks[i]>60 && marks[i]<=74)
            g[i]=8.0;
            else if(marks[i]>=50 && marks[i]<59)
            g[i]=7.0;
            else if(marks[i]>40 && marks[i]<49)
            g[i]=5.0;
            else
            g[i]=0.0;
    }
    for(int i=0;i<n;i++)
            gsum=gsum+g[i];
    for(int i=0;i<n;i++)
            sgpa=sgpa+(g[i]*credits[i])/gsum;
    System.out.printf("sgpa:%.2f",sgpa);
    }
}
class StudentM
{
    public static void main(String args[])
    {
            Student s=new Student();
            s.accept();
            s.display();
            s.calcsgpa();

    }
}
```

```
C:\Users\Amit R>java StudentM
enter number of subjects
4
enter the usn and name of student
1bm19cs016
amit
enter credits
2
3
3
4
enter marks
67
78
79
77
usn:1bm19cs016
name:amit
credits:
2
3
3
4
marks:
67
78
79
77
sgpa:3.03
C:\Users\Amit R>
```