```java
import java.util.*;
class Student
{
    int usn,sum=0,c=0,n;
    float sgp;
    String name;
    int credits[]=new int[10];
    int marks[]=new int[10];
    int grade[]=new int[10];
    void accept()
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter USN");
        usn=sc.nextInt();
        System.out.println("Enter Name");
        name=sc.next();
        System.out.println("Enter number of subjects");
        n=sc.nextInt();
        for(int i=0;i<n;i++)
        {
            System.out.println("Enter Marks");
            marks[i]=sc.nextInt();
            System.out.println("Enter credits of course");
            credits[i]=sc.nextInt();
        }
    }
    void calculate()
    {
        for(int i=0;i<n;i++)
        {
            if(marks[i]>=90)
            grade[i]=10;
            else if(marks[i]>=80&&marks[i]<90)
            grade[i]=9;
            else if(marks[i]>=70&&marks[i]<80)
```

```java
30   {
31       if(marks[i]>=90)
32       grade[i]=10;
33       else if(marks[i]>=80&&marks[i]<90)
34       grade[i]=9;
35       else if(marks[i]>=70&&marks[i]<80)
36       grade[i]=8;
37       else if(marks[i]>=60&&marks[i]<70)
38       grade[i]=7;
39       else if(marks[i]>=50&&marks[i]<60)
40       grade[i]=6;
41       else if(marks[i]>=40&&marks[i]<50)
42       grade[i]=5;
43       else if(marks[i]>=30&&marks[i]<40)
44       grade[i]=4;
45   }
46   for(int i=0;i<n;i++)
47   {
48       sum=sum+credits[i]*grade[i];
49   }
50   for(int i=0;i<n;i++)
51   {
52       c=c+credits[i];
53   }
54   sgp=sum/c;
55 }
56 void print()
57 {
58   System.out.println("The details of student");
59   System.out.println("USN="+usn+"\n"+"Name of Student:"+name);
60   for(int i=0;i<n;i++)
61   {
```

```java
                for(int i=0;i<n;i++)
                {
                    System.out.print(marks[i]+" ");
                }
                System.out.println("The SGPA is="+sgp);
        }
}
public class Main
{
    public static void main (String[] args)
    {
        Student s1=new Student();
        s1.accept();
        s1.calculate();
        s1.print();
    }
}
```