

```
1 import java.util.*;
2 class Student
3 {
4     private String USN;
5     private String name;
6     private int n;
7     private double SGPA = 0;
8     private int totalCredits = 0;
9     Scanner ss = new Scanner(System.in);
10
11    void Details()
12    {
13        System.out.println("Enter USN of the student");
14        USN = ss.nextLine();
15        System.out.println("Enter Name of the student");
16        name = ss.nextLine();
17        System.out.println("Enter no of subjects");
18        n = ss.nextInt();
19        int credits[] = new int[n];
20        double marks[] = new double[n];
21        System.out.println("Enter details of the subjects:");
22        for(int i=0;i<n;i++)
23        {
24            System.out.println("Enter credits allotted to the subject "+(i+1));
25            credits[i] = ss.nextInt();
26            System.out.println("Enter marks in the subject "+(i+1));
27            marks[i] = ss.nextInt();
28            Calculate(credits[i],marks[i],i);
29        }
30    }
31    void Calculate(int credit,double mark,int j)
32    {
33        totalCredits = totalCredits + credit;
34        if(mark>=90 && mark<=100)
35            SGPA = SGPA + (10*credit);
36        else if(mark>=80 && mark<=89)
37            SGPA = SGPA + (9*credit);
38        else if(mark>=70 && mark<=79)
39            SGPA = SGPA + (8*credit);
40        else if(mark>=60 && mark<=59)
41            SGPA = SGPA + (7*credit);
42        else if(mark>=50 && mark<=49)
43            SGPA = SGPA + (6*credit);
44        else if(mark>=40 && mark<=49)
45            SGPA = SGPA + (5*credit);
46        else
47            System.out.println("Failed in ubject "+(j+1));
48    }
49    void Display()
50    {
51        System.out.println("Details of the Student");
52        System.out.println("Name : "+name);
53        System.out.println("USN: "+USN);
54        System.out.println("SGPA of student "+(SGPA/totalCredits));
55    }
56}
57 class Main
58{
59    public static void main(String args[])
60    {
61        Student sl = new Student();
62        sl.Details();
63        sl.Display();
64    }
65}
```