

```
1 import java.util.Scanner;
2 class Student
3 {
4     private String USN;
5     private String name;
6     private double SGPA = 0;
7     private int totalCredits = 0;
8     private int [] credits;
9     private double [] marks;
10    private int i;
11
12    void accept()
13    {
14        int n;
15        Scanner scan = new Scanner(System.in);
16        System.out.println("Enter USN of the student");
17        USN = scan.nextLine();
18        System.out.println("Enter Name of the student");
19        name = scan.nextLine();
20        System.out.println("Enter no of subjects");
21        n = scan.nextInt();
22        credits = new int[n];
23        marks = new double[n];
24        System.out.println("Enter details of the subjects:");
25        for(int i=0;i<n;i++)
26        {
27            System.out.println("Enter credits for subject "+(i+1));
28            credits[i] = scan.nextInt();
29            System.out.println("Enter marks for subject "+(i+1));
30            marks[i] = scan.nextInt();
31            Calculate();
32        }
33    }
34 }
```

```
26 {
27     System.out.println("Enter credits for subject " + (i+1));
28     credits[i] = scan.nextInt();
29     System.out.println("Enter marks for subject " + (i+1));
30     marks[i] = scan.nextInt();
31     Calculate();
32 }
33 }
34
35
36 void Calculate()
37 {
38     totalCredits = totalCredits + credits[i];
39     if(marks[i] >= 90)
40         SGPA = SGPA + (10 * credits[i]);
41     else if(marks[i] >= 80)
42         SGPA = SGPA + (9 * credits[i]);
43     else if(marks[i] >= 70)
44         SGPA = SGPA + (8 * credits[i]);
45     else if(marks[i] >= 60)
46         SGPA = SGPA + (7 * credits[i]);
47     else if(marks[i] >= 50)
48         SGPA = SGPA + (6 * credits[i]);
49     else if(marks[i] >= 40)
50         SGPA = SGPA + (5 * credits[i]);
51     else
52         System.out.println("Failed in this Subject ");
53 }
54
55
56 void Display()
57 {
```

Main.java

```
53     }
54
55
56     void Display()
57     {
58         System.out.println("Details of the Student");
59         System.out.println("USN: "+USN);
60         System.out.println("Name :"+name);
61         System.out.println("SGPA of Student "+(SGPA/totalCredits));
62     }
63 }
64
65 class Main {
66     public static void main(String args[]) {
67         Student s1 = new Student();
68         s1.accept();
69         s1.Display();
70     }
71 }
```

```
Enter USN of the student
1BM19CS001
Enter Name of the student
Aakanksha
Enter no of subjects
3
Enter details of the subjects:
Enter credits for subject 1
5
Enter marks for subject 1
78
Enter credits for subject 2
4
Enter marks for subject 2
54
Enter credits for subject 3
3
Enter marks for subject 3
89
Details of the Student
USN: 1BM19CS001
Name :Aakanksha
SGPA of Student 8.0
```

```
...Program finished with exit code 0
Press ENTER to exit console. 
```