

```

5  write your code in this editor
6  *****/
7
8  import java.util.Scanner;
9
10 class Student
11 {
12     private String usn;
13     private String name;
14     private int[] credits;
15     private int[] marks;
16     private int sum=0;
17     private double sgpa;
18     private int n=0;
19
20
21     public void setUsn(String usn) {
22         this.usn = usn;
23     }
24
25     public void setName(String name) {
26         this.name = name;
27     }
28
29     public void setCredits(int[] credits) {
30         this.credits = credits;
31     }
32
33     public void setMarks(int[] marks) {
34         this.marks = marks;
35     }
36
37     void display()
38     {
39         System.out.println("Name:"+name);
40         System.out.println("USN"+usn);
41         System.out.println("Credits of each subject:");
42         for(int i=0;i<credits.length;i++)
43         {
44             System.out.println(credits[i]);
45             n += credits[i];
46         }
47         System.out.println("Marks of each subject:");
48         for(int i=0;i<marks.length;i++)
49         {
50             System.out.println(marks[i]);
51         }
52     }
53     void cal_sgpa()
54     {
55         for(int i=0;i<marks.length;i++)
56         {
57             if(marks[i]>=90)
58                 sum += credits[i]*10;
59             else if(marks[i]>=80 && marks[i]<90)
60                 sum += credits[i]*9;
61             else if(marks[i]>=70 && marks[i]<80)
62                 sum += credits[i]*8;
63             else if(marks[i]>=60 && marks[i]<70)
64                 sum += credits[i]*7;
65             else if(marks[i]>=50 && marks[i]<60)
66                 sum += credits[i]*6;
67             else if(marks[i]>=40 && marks[i]<50)
68                 sum += credits[i]*5;
69             else
70                 sum += credits[i]*0;
71         }
72         sgpa = sum*1.0/n;
73         System.out.println("SGPA:"+sgpa);

```

input

Command line arguments:

```

28
29 public void setCredits(int[] credits) {
30     this.credits = credits;
31 }
32
33 public void setMarks(int[] marks) {
34     this.marks = marks;
35 }
36
37 void display()
38 {
39     System.out.println("Name:"+name);
40     System.out.println("USN"+usn);
41     System.out.println("Credits of each subject:");
42     for(int i=0;i<credits.length;i++)
43     {
44         System.out.println(credits[i]);
45         n += credits[i];
46     }
47     System.out.println("Marks of each subject:");
48     for(int i=0;i<marks.length;i++)
49     {
50         System.out.println(marks[i]);
51     }
52 }
53 void cal_sgpa()
54 {
55     for(int i=0;i<marks.length;i++)
56     {
57         if(marks[i]>=90)
58             sum += credits[i]*10;
59         else if(marks[i]>=80 && marks[i]<90)
60             sum += credits[i]*9;
61         else if(marks[i]>=70 && marks[i]<80)
62             sum += credits[i]*8;
63         else if(marks[i]>=60 && marks[i]<70)
64             sum += credits[i]*7;
65         else if(marks[i]>=50 && marks[i]<60)
66             sum += credits[i]*6;
67         else if(marks[i]>=40 && marks[i]<50)
68             sum += credits[i]*5;
69         else
70             sum += credits[i]*0;
71     }
72     sgpa = sum*1.0/n;
73     System.out.println("SGPA:"+sgpa);
74 }
75
76 }
77 public class Main
78 {
79     public static void main(String args[])
80     {
81         Scanner sc = new Scanner(System.in);
82         int [] credits = new int[]{5,4,4,4,3};
83         String [] subject = new String[]{"PHYSICS", "EM-2","EME","CCP","ECE"};
84         int[] marks=new int[credits.length];
85         for(int i=0;i<credits.length;i++)
86         {
87             System.out.print(subject[i]+" :");
88             marks[i]=sc.nextInt();
89         }
90         Student s = new Student();
91         s.setUsn("18M19CS019");
92         s.setName("Ananth G Prabhu");
93         s.setMarks(marks);
94         s.setCredits(credits);
95         s.display();
96         s.cal_sgpa();
97     }
98 }
99
100

```



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Prabhu**

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```
5  Write your code in this
6
7  *****
8  import java.util.Scanner
9
```



input

PHYSICS:78

EM-2:89

EME:45

CCP:87

ECE:93

Name:Ananth G Prabhu

USN1BM19CS019

Credits of each subject:

5

4

4

4

3

Marks of each subject:

78

89

45

87

93

SGPA:8.1

...Program finished with exit co  
de 0

Press ENTER to exit console.