

```
lab2.java x lab1.java x
1 package com.company;
2 import java.util.Scanner;
3 class Student{
4     private String usn;
5     private String name;
6     private int credit[]=new int[5];
7     private double marks[]=new double[5];
8     private int total_credits=0;
9     private float total=0f;
10    private float sgpa=0f;
11    private int p[]=new int[5];
12    Scanner s=new Scanner(System.in);
13    Student(){
14        usn="";
15        name="";
16    }
17    Student(String eusn,String ename,double[] emarks,int[] ecredit)
18    {
19        usn=eusn;
20        name=ename;
21        marks=emarks;
22        credit=ecredit;
23    }
24    public void get_details()
25    {
26        System.out.println("Enter the usn of student:");
27        usn=s.next();
```

```
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28 System.out.println("Enter the name of student:");
29 name=s.next();
30 for (int i=0;i<5;i++)
31 {
32     System.out.println("Enter the marks of subject"+(i+1)+"(for 100):");
33     marks[i]=s.nextDouble();
34     System.out.println("Enter the credits for subject"+(i+1)+":");
35     credit[i]=s.nextInt();
36 }
37 }
38 public float compute_sgpa()
39 {
40     p=new int[5];
41     for (int i=0;i<5;i++)
42     {
43         total_credits+=credit[i];
44     }
45     for (int i=0;i<5;i++)
46     {
47         if (marks[i]>=90)
48             p[i]=10;
49         else if (marks[i]>=80)
50             p[i]=9;
51         else if (marks[i]>=70) I
52             p[i]=8;
53         else if (marks[i]>=60)
54             p[i]=7;
```



```
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55         else if (marks[i]>=50)
56             p[i]=6;
57         else if (marks[i]>=40)
58             p[i]=5;
59         else
60             p[i]=0;
61     }
62     for (int i=0;i<5;i++)
63     {
64         total+=p[i]*credit[i];
65     }
66     sgpa=total/total_credits;
67     return sgpa;
68 }
69 public void display_details()
70 {
71     sgpa= compute_sgpa();
72     System.out.println("Student usn:"+usn);
73     System.out.println("Student name:"+name);
74     System.out.println("Marks Credits");
75     for (int i=0;i<5;i++)
76     {
77         System.out.println(marks[i]+" "+credit[i]);
78     }
79     System.out.println("Student sgpa:"+sgpa);
80 }
81 }
```

```
81
82 ▶ public class lab2 {
83 ▶     public static void main(String args[])
84     {
85         double[] marks={100,100,100,100,100};
86         int[] credit={4,4,4,4,4};
87         Student s1=new Student();
88         s1.get_details();
89         s1.display_details();
90         Student s2=new Student( eusn: "bm",  ename: "janu",marks,credit);
91         s2.display_details();
92     }
93 }
94
```

I

"C:\Program Files\Java\jdk1.8.0_261\bin\java.exe" ...

Enter the usn of student:

1BM19CS065

Enter the name of student:

Jahnavi

Enter the marks of subject1(for 100):

100

Enter the credits for subject1:

5

Enter the marks of subject2(for 100):

98

Enter the credits for subject2:

3

Enter the marks of subject3(for 100):

99

Enter the credits for subject3:

4

Enter the marks of subject4(for 100):

98

Enter the credits for subject4:

4

Enter the marks of subject5(for 100):

92

Enter the credits for subject5:

4

Student usn:1BM19CS065

Student name:Jahnavi

Student usn:1BM19CS065

Student name:Jahnavi

Marks	Credits
-------	---------

100.0	5
-------	---

98.0	3
------	---

99.0	4
------	---

98.0	4
------	---

92.0	4
------	---

Student sgpa:10.0

Student usn:1BM19CS004

Student name:Adithi

Marks	Credits
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100.0	4
-------	---

100.0	4
-------	---

100.0	4
-------	---

100.0	4
-------	---

100.0	4
-------	---

Student sgpa:10.0

Process finished with exit code 0

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