

```
student_sgpa.java x
1 import java.util.Scanner;
2 class Student{
3     String name,usn;
4     int cred[];
5     double marks[];
6     int n,i;
7     void getdata(){
8         System.out.println("Enter your name");
9         Scanner s1=new Scanner(System.in);
10        name=s1.next();
11        System.out.println("Enter your USN");
12        usn=s1.next();
13        System.out.println("Enter the number of subjects");
14        n=s1.nextInt();
15        marks=new double[n];
16        cred=new int[n];
17        System.out.println("Enter your marks and its respective credits");
18        for(i=0;i<n;i++){
19            System.out.println("marks["+i+"]=");
20            marks[i]=s1.nextDouble();
21            System.out.println("credits["+i+"]=");
22            cred[i]=s1.nextInt();
23        }
24    }
25    void printdata(){
26        System.out.println("Name:"+name);
27        System.out.println("USN:"+usn);
28        for(i=0;i<n;i++)
29            System.out.println("Subject "+i+"-Marks="+marks[i]+";Credits="+cred[i]);
30    }
31    void calc(){
32        double sgpa;
33        int cre=0;
34        double sum=0;
35        int gp[];
36        gp=new int[n];
37        for(i=0;i<n;i++){
38            if(marks[i]>=90)
39                gp[i]=10;
40            else if(marks[i]>=80)
41                gp[i]=9;
42            else if(marks[i]>=70)
43                gp[i]=8;
44            else if(marks[i]>=60)
45                gp[i]=7;
```

Line 46, Column 33

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Java



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```
23     }
24 }
25 void printdata(){
26     System.out.println("Name:"+name);
27     System.out.println("USN:"+usn);
28     for(i=0;i<n;i++){
29         System.out.println("Subject "+(i+1)+"-Marks="+marks[i]+"Credits="+cred[i]);
30     }
31 void calc(){
32     double sgpa;
33     int cre=0;
34     double sum=0;
35     int gp[];
36     gp=new int[n];
37     for(i=0;i<n;i++){
38         if(marks[i]>=90)
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42         else if(marks[i]>=70)
43             gp[i]=8;
44         else if(marks[i]>=60)
45             gp[i]=7;
46         else if(marks[i]>=50)
47             gp[i]=6;
48         else
49             gp[i]=5;
50
51         sum=(double)(cred[i]*gp[i])+sum;
52
53         cre=cre+cred[i];
54     }
55     sgpa=sum/cre;
56     System.out.printf("SGPA=%.2f",sgpa);
57 }
58 }
59 class StudentMain{
60     public static void main(String args[]){
61         Student s1=new Student();
62         s1.getdata();
63         s1.printdata();
64         s1.calc();
65     }
66 }
```

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16        cred=new int[n];
17        System.out.println("Enter your marks and its respective credits");
18        for(i=0;i<n;i++){
19            System.out.println("marks["+(i+1)+"]=");
20            marks[i]=s1.nextDouble();
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24    }
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```

Command Prompt

C:\Program Files\Java\bin\basic>javac student_sgpa.java

C:\Program Files\Java\bin\basic>java StudentMain

Enter your name

Harshitha

Enter your USN

1BMCS059

Enter the number of subjects

5

Enter your marks and its respective credits

marks[1]=

90

credits[1]=

5

marks[2]=

89

credits[2]=

3

marks[3]=

78

credits[3]=

2

marks[4]=

90

credits[4]=

4

marks[5]=

98

credits[5]=

2

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25    void printdata(){
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27        System.out.println("USN:"+usn);
28        for(i=0;i<n;i++)
29            System.out.println("Subject "+i+1+"-Marks="+marks[i]+";Credits="+cred[i]);
30    }
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```
Command Prompt
marks[1]=
90
credits[1]=
5
marks[2]=
89
credits[2]=
3
marks[3]=
78
credits[3]=
2
marks[4]=
90
credits[4]=
4
marks[5]=
98
credits[5]=
2
Name:Harshitha
USN:1BMCS059
Subject 1-Marks=90.0;Credits=5
Subject 2-Marks=89.0;Credits=3
Subject 3-Marks=78.0;Credits=2
Subject 4-Marks=90.0;Credits=4
Subject 5-Marks=98.0;Credits=2
SGPA=9.56
C:\Program Files\Java\bin\basic>
```