

## Main.java

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

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```
27     System.out.println("Enter marks in the subject "+(i+1));
28     marks[i] = ss.nextInt();
29     Calculate(credits[i],marks[i],i);
30 }
31 }
32 void Calculate(int credit,double mark,int j)
33 {
34     totalCredits = totalCredits + credit;
35     if(mark>=90&&mark<=100)
36         SGPA = SGPA + (10*credit);
37     else if(mark>=80 && mark<=89)
38         SGPA = SGPA + (9*credit);
39     else if(mark>=70&&mark<=79)
40         SGPA = SGPA + (8*credit);
41     else if(mark>=60&&mark<=69)
42         SGPA = SGPA + (7*credit);
43     else if(mark>=50 && mark<=59)
44         SGPA = SGPA + (6*credit);
45     else if(mark>=40&&mark<=49)
46         SGPA = SGPA + (5*credit);
47     else
48         System.out.println("Failed in subject "+(j+1));
49 }
50 void Display()
51 {
52     System.out.println("Details of the Student");
53     System.out.println("Name :"+NAME);
54     System.out.println("USN: "+USN);
```

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Main.java

```
41     else if(mark>=60&&mark<=69)
42         SGPA = SGPA + (7*credit);
43     else if(mark>=50 && mark<=59)
44         SGPA = SGPA + (6*credit);
45     else if(mark>=40&&mark<=49)
46         SGPA = SGPA + (5*credit);
47     else
48         System.out.println("Failed in subject "+(j+1));
49 }
50 void Display()
51 {
52     System.out.println("Details of the Student");
53     System.out.println("Name :" +NAME);
54     System.out.println("USN: " +USN);
55     System.out.println("SGPA of student "+(SGPA/totalCredits))
56 }
57 }
58 class Main
59 {
60     public static void main(String args[])
61     {
62         Student s1 = new Student();
63         s1.Details();
64         s1.Display();
65     }
66 }
67 |
```

```
➢ javac -classpath .:/run_dir/junit-4.12.jar:target/d
ependency/* -d . Main.java
➢ java -classpath .:/run_dir/junit-4.12.jar:target/de
pendency/* Main
Enter USN of the student
1bm19cs027
Enter Name of the student
ashutosh
Enter no of subjects
3
Enter credits allotted to the subject 1
10
Enter marks in the subject 1
70
Enter credits allotted to the subject 2
10
Enter marks in the subject 2
50
Enter credits allotted to the subject 3
10
Enter marks in the subject 3
80
Details of the Student
Name :ashutosh
USN: 1bm19cs027
SGPA of student 7.66666666666667
➢ █
```