

>Welcome J SGPA.java 3 X

C: > Users > student > Desktop > 1BM24CS336 > J SGPA.java > Student > calc()

```
1 import java.util.Scanner;
2 class Student{
3     String usn,name;
4     int[] credits,marks;
5     void acceptDetails(){
6         Scanner sc=new Scanner(System.in);
7         System.out.print(s:"Enter USN:");
8         usn=sc.next();
9         sc.nextLine();
10        System.out.print(s:"Enter Name:");
11        name=sc.next();
12        sc.nextLine();
13        credits=new int[4];
14        marks=new int[4];
15        System.out.println(x:"Enter details of credits and marks in order for 4 subjects:");
16        for (int i=0;i<4;i++){
17            System.out.print("Enter credits for Subject "+(i+1)+": ");
18            credits[i]=sc.nextInt();
19            System.out.print("Enter marks for Subject "+(i+1)+": ");
20            marks[i]=sc.nextInt();
21        }
22    }
23    void display(){
24        System.out.println(x:"Student Details.");
25        System.out.println("USN: "+usn);
26        System.out.println("Name: "+name);
27        for (int i=0;i<4;i++){
28            System.out.println("Subject "+(i+1)+"- Credits: "+ credits[i]+", Marks: "+ marks[i]);
29        }
30    }
31    double calc(){
32        int totalCredits=0;
33        double totalGradePoints = 0;
34        for (int i=0;i<4;i++){
35            totalCredits += credits[i];
36            totalGradePoints += gradePoints(marks[i])*credits[i];
37        }
38        return totalGradePoints / totalCredits;
39    }
40    int gradePoints(int marks){
41        if (marks>=90) return 10;
42        else if (marks >= 80) return 9;
43        else if (marks >= 70) return 8;
44        else if (marks >= 60) return 7;
45        else if (marks >= 50) return 6;
46        else if (marks >= 40) return 5;
47        else return 0;
48    }
49 }
```

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```
50  public class SGPA{
51      public static void main(String[] args) {
52          System.out.print("Enter the number of students: ");
53          int numStudents = sc.nextInt();
54          Student student[] = new Student[numStudents];
55          for (int i=0; i<numStudents; i++){
56              student[i]= new Student();
57              student[i].acceptDetails();
58              student[i].display();
59              System.out.println("\nSGPA: "+student[i].calc());
60          }
61      }
62  }
```

