classmate
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LAB-2 program

```
import java.util.scanner;

class Student {
        private string USN;
        private string name;
        private int[] credits;
        private int[] marks;

        public Student (string USN, String name, int[]
                        credits, int[] marks) {
        this.USN=USN;
        this.name=name;
        this.credits=credits;
        this.marks=marks;
}
public void accept details (){
        Scanner sc = new Scanner (System.in);
        System.out.println ("Enter USN:");
        USN = sc.nextLine();
        System.out.println ("Enter Name: ");
        name = sc.nextLine();
        System.out.println ("Enter the number
          of subjects: ");
        int numSubjects = sc.nextInt();
        credits = new int[numSubjects];
        marks = new int[numSubjects];
        for (int i=0; i<numSubjects; i++){
                System.out.println ("Enter the
                credits for subjects "+(i+1)+": ");
                credits[i] = sc.nextInt();
                System.out.println ("Enter the mark
                for subject "+(i+1)+": ");
                marks[i] = sc.nextInt();
```


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```
public void displayDetails(){
    System.out.println("USN: "+USN);
    System.out.println("Name: "+name);
    for(int i=0; i<credits.length; i++){
        System.out.println("Subject"+i+
        ": Credits: "+credits[i]+" Mark: "+
        marks[i]);
    }
}

public double calculateSGPA(){
    double totalCreditPoints=0;
    double totalCredits=0;
    for(int i=0; i<credits.length; i++){
        totalCreditPoints+=credits[i]*getGrade
        GradePoints(marks[i]);
        totalCredits+=credits[i];
    }
    return totalCreditPoints/totalCredits;
}
private double getGradePoints(int marks){
    if(marks>=90){
        return 10.0;
    } else if(marks>=80){
        return 9.0;
    } else if(marks>=70){
        return 8.0;
    } elseif(marks>=60){
        return 7.0
    } elseif(marks>=50){
        return 6.0
    } else{
        return 0.0;
}
}
```

```
public static void main (String[] args){
    Student ~~new~~ Student ("4B
    student.acceptdetails();
    student.displaydetails();
    System.out.println("SGPA: "+ student.
    calculatesgpa());
    }
}
```

OUTPUT:

Enter USN:
1BM22CS229
Enter name:
Rakhal.
Enter number of Subjects
3
Enter credit for Subjects:
3
Enter mark for subjects:
90
Enter credit for Subject 2
~~Enter~~ 4
Enter marks for Subject 2
90
Enter credit for Subject 3
4
Enter marks for subject 3
85

SGPA: 9.6363