

```
import java.util.Scanner;
```

```
class student {
```

```
    private String usn, name;
    private int[] credits = new int [5];
    private int[] marks = new int [5];
    private int[] grade = new int [5];
```

```
    void accept() {
```

```
        Scanner sc = new Scanner (System.in);
```

```
        System.out.print ("Enter your name");
```

```
        this.name = sc.nextLine();
```

```
        System.out.print ("Enter your usn:");
```

```
        this.usn = sc.next();
```

```
        System.out.print ("
```

```
for ( int i = 0; i < credits.length ; i++) {
```

```
    System.out.print ("Enter marks in Subject" + (i+1) + ":");
```

```
    this.marks[i] = sc.nextInt();
```

```
    System.out.print ("Enter credits in Subject" + (i+1) + ":");
```

```
    this.credits[i] = sc.nextInt();
```

```
    System.out.println();
```

```
}
```

```
    void display() {
```

```
        System.out.println("Here are your details:");
```

```
        System.out.println ("USN: " + usn);
```

```
        System.out.println ("Name: " + name);
```

```
        for (int i = 0; i < credits.length; i++) {
```

```
            System.out.println ("SUBJECT: " + (i+1) + " CREDITS: "
                                + credits[i] + " MARKS: " + marks[i]);
```

```
}
```

```
}
```

```
    void gradeCalc() {
```

```
        for (int i = 0; i < marks.length; i++) {
```

```
            if (marks[i] >= 90)
                grade[i] = 10;
```

```
            else if (marks[i] >= 80 & marks[i] < 90)
                grade[i] = 9;
```

```
            else if (marks[i] >= 70 & marks[i] < 80)
                grade[i] = 8;
```

```

else if (marks[i] >= 60 & & marks[i] < 70)
    grade[i] = 7;
else if (marks[i] >= 50 & & marks[i] < 60)
    grade[i] = 6;
else if (marks[i] >= 40 & & marks[i] < 50)
    grade[i] = 4;
else
    grade[i] = 0;
}

```

```

}
double sgpa() {
    double sum = 0, totalCred = 0;
    gradeCalc();
    for (int i = 0; i < credits.length; i++) {
        sum += grade[i] * credits[i];
        totalCred += credits[i];
    }
    return sum / totalCred;
}

```

```

}
public static void main(String args[]) {
    student std = new student();
    std.accept();
    std.display();
    double gradept = std.sgpa();
    System.out.println("Your sgpa is: " + gradept);
}
}

```

Expected o/p:- (for 2 subject input)

Enter your Name:- Medha Madhusudhan

Enter your USN:- 16M19EC074

Enter marks in subject 1:- 100

Enter credits of subject 1:- 4

Enter marks in subject-2:- 75

Enter credits of subject 2:- 3

Here are your details:-

USN:- 16M19EC074

Name:- Medha Madhusudhan

Subject 1 credits: 4 marks: 100

Subject 2 credits: 3 marks: 75

Your sgpa is: 9.1428