

06/10/2020.

LAB 2

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

```
class student {
```

```
    private String usn;
```

```
    private String name;
```

```
    private int[] credits;
```

```
    private double[] marks;
```

```
    private int n;
```

```
    void getDetails () {
```

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

```
        System.out.println ("Enter no. of  
                             subject");
```

```
n = sc.nextInt();
```

```
credits = new int[n];
```

```
marks = new double[n];
```

```
System.out.println("Enter student UIN");
```

```
UIN = sc.nextInt();
```

```
System.out.println("Enter student name");
```

```
name = sc.next();
```

```
for (int i = 0; i < n; i++) {
```

```
    System.out.println("Enter credits and  
    marks of subject" + (i+1) + ":");
```

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

```
    marks[i] = sc.nextDouble();
```

```
}
```

```
}
```

```
void printDetails () {
```

```
    System.out.println("Student details are as  
    follows");
```

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

```
    for (int i = 0; i < n; i++) {
```

```
        System.out.println("Sub" + (i+1) + "Marks is:"  
        + marks[i] + "\nCredits is: " + credits[i]);
```

```
}
```

```
}
```

```

void srgpaclac () {
    double srgpa;
    int[] gpcr = new int[n];
    int credsum = 0, gp, spgcr = 0;
    for (int i = 0; i < n; i++) {
        credsum += credits[i];
        if (marks[i] >= 90) {
            gp = 10;
        }
        else if (marks[i] >= 80) {
            gp = 9;
        }
        else if (marks[i] >= 70) {
            gp = 8;
        }
        else if (marks[i] >= 60) {
            gp = 7;
        }
        else if (marks[i] >= 50) {
            gp = 5;
        }
        else if (marks[i] >= 40) {
            gp = 4;
        }
        else {
            gp = 0;
        }
        gpcr[i] = gp * credits[i];
        spgcr += gpcr[i];
    }
}

```

```
    sgpa = sgpcr / (credsum + 0.0);  
    System.out.println("student's sgpa is : " + sgpa);  
}  
}
```

```
class Main {  
    public static void main (String[] args) {  
        Student s1 = new Student();  
  
        s1.getDetails();  
        s1.printDetails();  
        s1.sgpaCalc();  
    }  
}
```