

## LAB PROGRAM 2 (06\10\2020)

```
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 subjects:");

        n = sc.nextInt();
        credits = new int[n];
        marks = new double[n];
        System.out.println("Enter Student usn");
        usn = sc.next();
        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 + "\tusn: " + usn);
        for(int i = 0; i < n; i++){
            System.out.println("Sub" + (i+1) + " Marks is: " + marks[i] +
"\tCredit is: " + credits[i]);
        }
    }

    void sgpaClac(){
        double sgpa;
        int[] gpcr = new int[n];
        int credSum = 0, gp, sgpcr = 0;
        for(int i = 0; i < n; i++){
            credSum += credits[i];
            if (marks[i] >= 90){
                gp = 10;
            }
            else if(marks[i] >= 80){
                gp = 9;
            }
        }
        sgpa = credSum / n;
    }
}
```

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        }
        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];
        sgpcr += 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.sgpaClac();
    }
}

```