Calculation of SGPA

```java
import java.util.Scanner;
class Student
{
    private String usn;
    private String name;
    private int[] credits;
    private int[] marks;
    private int sum = 0;
    private double sgpa;
    private int n = 0;

    public void setUsn (String usn) {
        this.usn = usn;
    }
    public void setName (String name) {
        this.name = name;
    }
    public void setCredits (int[] credits) {
        this.credits = credits;
    }
    public void setMarks (int[] marks) {
        this.marks = marks;
    }
    void display()
    {
        System.out.println("Name: " + name);
        System.out.println("USN" + usn);
        System.out.println(" Credits of each subject: ");
        for(int i=0; i< credits.length; i++)
        {
            System.out.println(credits[i]);
            nt = credits[i];
        }
```

```
        }
        System.out.println("marks of each subject: ");
        for(int i=0; i<marks.length; i++)
        {
            System.out.println(marks[i]);
        }
    }
    void cal-sgpa()
    {
        for(int =0; i<marks.length; i++)
        {
            if(marks[i]>=90)
                Sum+ = credits[i]* 10;
            else if(marks[i]>=80 && marks[i]<90)
                Sum+ = credits[i]*9;
            else if(marks[i]>= 70 && marks[i]<80)
                Sum+ = credits[i]*8;
            else if(marks[i]>=60 && marks[i]<70)
                Sum+ = credits[i]* 7;
            else if(marks[i]>=50 && marks[i]<60)
                Sum+ = credits[i]*6;
            else if(marks[i]>= 40 && marks[i]<50)
                Sum+ = credits[i]*5;
            else
                Sum+ = credits[i]* 0;
        }
        sgpa = Sum*1.0/n;
        System.out.println("SGPA: " +sgpa);
    }
}
    public class Main
    {
        public static void main(string args[])
        {
```

```java
Scanner sc = new Scanner (System.in);
int [] credits = new int [] {5,4,4,4,3};
String[] subject = new String []
{"PHYSICS", "EM-2", "EME", "CCP", "ECE"};
int [] marks = new int [credits.length];
for (int i=0; i< credits.length; i++)
{
    System.out.print( subject[i]+ ".");
    marks[i] = sc.nextInt();
}
```

```
Student S = new Student ();
S.Set Usn ("IBM19CS017");
S.Set Name ("ANANTH G Prabhu");
S. Set marks (marks);
S. set Credits (credits);
S.display ();
S.cal_sgpa ();
}
}
```