*Student - Notepad

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```
import java.util.Scanner;
class Student
{
String usn,name;
static int credits[];
static double marks[];
void input(int n)
{
Scanner sc=new Scanner(System.in);
System.out.println("enter usn and name ");
usn=sc.nextLine();
name=sc.nextLine();
System.out.println("enter marks along with credits");
for(int i=0;i<n;i++)
{
marks[i]=sc.nextDouble();
credits[i]=sc.nextInt();
System.out.println();
}
}
double calculate(int n)
{
int c,cred=0;
double tot,total=0.0;
for(int i=0;i<n;i++)
{
tot=marks[i];
if(tot>=90)
            c=10;
            else if(tot>=80)
            c=9;
            else if(tot>=70)
            c=8;
            else if(tot>=60)
            c=7;
            else if(tot>=50)
            c=6;
            else if(tot>=40)
            c=5;
            else
```

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```
            c=8;
            else if(tot>=60)
            c=7;
            else if(tot>=50)
            c=6;
            else if(tot>=40)
            c=5;
            else
            c=0;
   total=total+(c*credits[i]);
cred=cred+credits[i];
}
total=total/cred;
return(total);
}
void display(int n,double total)
{
System.out.println("name of student : "+name);
System.out.println("usn of student : "+usn);
System.out.println("marks of student along with credits of course");
for(int i=0;i<n;i++)
{
System.out.println(marks[i]+"   "+credits[i]);
}
System.out.println("sgpa of student : "+total);
}
public static void main(String args[])
{
Scanner sc=new Scanner(System.in);
Student obj=new Student();
System.out.println("enter no of course ");
int n=sc.nextInt();
credits=new int[n];
marks=new double[n];
obj.input(n);
double total=obj.calculate(n);
obj.display(n,total);
}
}
```

```
C:\Users\PUNEETH K\Desktop\JAVA>javac Student.java

C:\Users\PUNEETH K\Desktop\JAVA>java Student
enter no of course

3
enter usn and name
125
Puneeth
enter marks along with credits
72
4

85
5

90
3

name of student : Puneeth
usn of student : 125
marks of student along with credits of course
72.0   4
85.0   5
90.0   3
sgpa of student : 8.916666666666666
```

LAB - 2

```
import java.util.Scanner;
class Student{
 String usn, name;
 static int credits[];
 static double marks[];
void input(int n)
 {
Scanner sc = new Scanner(System.in);
System.out.println("enter usn and name);
  usn = sc.nextline();
  name = sc.nextline();
System.out.println("enter the marks with credits
        of that subject");
 for(int i=0; i<n; i++)
   {
   marks[i] = sc.nextDouble();
   credits[i] = sc.nextInt();
   System.out.println();
  }
```

```
void display( int n, double total)
{
System.out.println("name of student : "+name);
System.out.println("usn of student : "+usn);
System.out.println("marks of Student along with credit");
for (int i =0 ; i<n; i++)
{System.out.println(marks[i]+" "+credits[i]);
}
System.out.println("sgpa of Student :"+total);
}
public static void main(String args[])
{
Scanner sc= new Scanner(System.in);
Student obj = new Student();
System.out.println("enter the number of courses");
int n = sc.nextInt();
credits = new int[n];
marks = new double[n];
obj.input(n);
double total = obj.calculate(n);
obj.display(n,total);
}
}
```

Out put

```
enter the number ofcourses
3
enter usn and name
125
Puneeth
enter the marks along with credits
72
4
85
5
90
```

name of student : Punith
usn of student : 125
marks of student along with credits of course

72.0	4
85.0	5
90.0	3

sgpa of student : 8.916666

Algorithm

Step1:- Take value of name, usn, credints and number of course.

Step2:- assign grade points to each subject.

Step3:- operate (grade point x credits) for each subject

Step4:- Divide the obtained answer with total number of credits to get sgpa