LAB PROGRAM-2

Develop a java program to create a class student with members usn ,name ,any array credits and an array marks. Include methods to accept and display details and a method to calculate the sgpa of a student.

```java
import java.util.Scanner;
class student
{
void display(String name,String usn)
{
System.out.println("usn of the student:" +usn);
System.out.println("name of the student:" +name);
}
void calculatesgpa(double[] marks,double[] credits,int number)
{ double gradepoints[] =new double[number];
double sgpa,sum=0,tnum=0;
for(int i=0;i<number;i++)
{
if(marks[i]>=90)
gradepoints[i]=10;

else if(marks[i]>=80 && marks[i]<90)
gradepoints[i]=9;
else if(marks[i]>=70 && marks[i]<80)
gradepoints[i]=8;
else if(marks[i]>=60 && marks[i]<70)
gradepoints[i]=7;
else if(marks[i]>=50 && marks[i]<60)
gradepoints[i]=6;
else if(marks[i]>=40 && marks[i]<50)
gradepoints[i]=5;
else
gradepoints[i]=0;
}
for(int i=0;i<number;i++)
{
sum+=credits[i]*gradepoints[i];
}
for(int i=0;i<number;i++)
{
tnum+=credits[i];
}
sgpa=sum/tnum;
System.out.println("sgpa is " +sgpa);
}
}
class sgpa{
public static void main(String args[])
{
Scanner s=new Scanner(System.in);
System.out.println("enter name and usn of the student");
String name=s.next();
String usn=s.next();
student s1=new student();
System.out.println("enter number of courses");
int number=s.nextInt();
double credits[] =new double[number];
double marks[] =new double[number];
for (int i=0;i<number;i++)
{
System.out.println("credit of the subject"+(i+1)+":");
credits[i]=s.nextDouble();
System.out.println("marks of the subject"+(i+1)+":");
marks[i]=s.nextDouble();
}
s1.display(name,usn);
s1.calculatesgpa(marks,credits,number);
}
}
```

Ln 64, Col 2