

Develop a Java program to create a class Student with members usn, name, an array credits and an array marks. Include methods to accept and display details and a method to calculate SGPA of a student.

```
import java.util.Scanner;

public class SGPA
{
    Run | Debug
    public static void main(String[] args)
    {
        Scanner sc =new Scanner(System.in);
        System.out.print(s: "Enter the number of students:");
        int n= sc.nextInt();
        System.out.print(s: "Enter the number of subjects:");
        int ns= sc.nextInt();
        details d= new details();
        for(int i=0;i<n;i++)
        {
            d.accept(ns);
            float sg=d.sgpa(ns);
            d.display(ns,sg);
        }
    }
    class details
    {
        String usn,name;
        int c[]=new int[10],m[]=new int[10];
        Scanner sc=new Scanner(System.in);
        public void accept(int ns)
        {
            System.out.print(s: "Enter the usn of students:");
            usn=sc.next();
            System.out.print(s: "Enter the name of students:");
            name=sc.next();
        }
        public void display(int ns, float sg)
        {
            System.out.println("The usn is "+usn);
            System.out.println("The name is "+name);
            System.out.println("The SGPA is "+sg);
        }
        public float sgpa(int ns)
        {
            float sum=0;
            for(int i=0;i<ns;i++)
                sum+=m[i];
            return sum/ns;
        }
    }
}
```

```
for (int j=0;j<ns;j++)
{
    System.out.print(s: "Enter the credit of the subject :");
    c[j]= sc.nextInt();
    System.out.print(s: "Enter the marks scored subject :");
    m[j]= sc.nextInt();
}

public float sgpa(int ns)
{
    float sg=0;
    int sum=0;
    for(int j=0;j<ns;j++)
    {
        sum=sum+c[j];
    }
    for(int j=0;j<ns;j++)
    {
        int g;
        if (m[j]<=100 && m[j]>=90)
            g=10;
        else if(m[j]<90 && m[j]>80)
            g=9;
        else if(m[j]<=80 && m[j]>70)
            g=8;
        else if(m[j]<=70 && m[j]>60)
            g=7;
        else if(m[j]<=60 && m[j]>50)
            g=6;
        else if(m[j]<=50 && m[j]>40)
```

```
        g=5;
    else
        g=0;
    sg=g*c[j]+sg;

}
sg=sg/sum;
return sg;
}
public void display(int ns,float sg)
{
    System.out.println(" the usn of students:"+usn);
    System.out.println(" the name of students:"+name);
    System.out.println(" SGPA="+sg);

}
}
```

```
PS C:\Users\chinn> & 'C:\Program Files\Java\jdk-25\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInassertFailure' 'Temp\vscodews_21241\jdt_ws\jdt.ls-java-project\bin' 'SGPA'
Enter the number of students:2
Enter the number of subjects:3
Enter the usn of students:123
Enter the name of students:chinnu
Enter the credit of the subject :4
Enter the marks scored subject :99
Enter the credit of the subject :4
Enter the marks scored subject :90
Enter the credit of the subject :3
Enter the marks scored subject :89
the usn of students:123
the name of students:chinnu
SGPA=9.727273
Enter the usn of students:manasa

```