

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();
    }
}
```

```

        for (int j=0;j<ns;j++)
        {
            System.out.print(s: "Enter the creadit 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\chinnu> & 'C:\Program Files\Java\jdk-25\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDet
Temp\vscodesws_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 creadit of the subject :4
Enter the marks scored subject :99
Enter the creadit of the subject :4
Enter the marks scored subject :90
Enter the creadit 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

```