```
import java.util.*;
public class Student
{
String USN;
String name;
int credits[];
int marks[];
int i,n,tot=0;
double SGPA;
Student()
this.USN=USN;
this.name=name;
this.credits=credits;
this.marks=marks;
SGPA=0;
}
void input()
Scanner sc=new Scanner(System.in);
System.out.println("Enter the USN and the name of the student");
USN=sc.nextLine();
name=sc.nextLine();
System.out.println("Enter the number of subjects");
n=sc.nextInt();
credits=new int[n];
marks =new int[n];
for(i=0;i<n;i++)
 System.out.println("Enter the credits for subject:"+(i+1));
credits[i]=sc.nextInt();
tot=tot+credits[i];
for(i=0;i<n;i++)
 System.out.println("Enter the marks of the student for subject:"+(i+1));
this.marks[i]=sc.nextInt();
}
}
```

```
void grade_points()
    int i;
    for(i=0;i<n;i++)
        if(this.marks[i]>90 && this.marks[i]<=100)</pre>
        {
            this.marks[i]=10;
        else if(this.marks[i]>80 && this.marks[i]<=90)
            this.marks[i]=9;
        else if(this.marks[i]>70 && this.marks[i]<=80)
            this.marks[i]=8;
        else if(this.marks[i]>60 && this.marks[i]<=70)
            this.marks[i]=7;
        else if(this.marks[i]>50 && this.marks[i]<=60)
            this.marks[i]=6;
        else if(this.marks[i]>40 && this.marks[i]<=50)
            this.marks[i]=4;
        else if(this.marks[i]<40)
            this.marks[i]=4;
        }
   }
}
```

```
void calc_SGPA()
 int i;
 for(i=0;i<n;i++)
  SGPA=SGPA+(credits[i]*this.marks[i]);
  SGPA=SGPA/tot;
void display()
   System.out.println("The student with USN:"+USN+", Name:"+name+" has SGPA:"+SGPA);
public static void main(String[] args)
 Student st=new Student();
 st.input();
 st.grade points();
 st.calc_SGPA();
 st.display();
```

```
E:\Java>java Student
Enter the USN and the name of the student
Swaroop,
Enter the number of subjects
Enter the credits for subject:1
Enter the credits for subject:2
Enter the marks of the student for subject:1
98
Enter the marks of the student for subject:2
81
The student with USN:1, Name:Swaroop has SGPA:9.555555
```