

```

import java.util.Scanner;

class student{

String usn;

String name;

float[] credits= new float[30];

float[] marks = new float[30];

float[] grade = new float[30];

Scanner in = new Scanner(System.in);

void input(int n) {
    for(int i=0;i<n;i++) {
        System.out.println("Enter credit of subject" +(i+1));
        credits[i]=in.nextFloat();
        System.out.println("Enter marks of subject" +(i+1));
        marks[i]=in.nextFloat();
        if(marks[i]>=90&&marks[i]<=100){grade[i]=10;}
        else if(marks[i]>=80&&marks[i]<=90){grade[i]=9;}
        else if(marks[i]>=70&&marks[i]<=80){grade[i]=8;}
        else if(marks[i]>=60&&marks[i]<=70){grade[i]=7;}
        else if(marks[i]>=50&&marks[i]<=60){grade[i]=6;}
        else if(marks[i]>=40&&marks[i]<=50){grade[i]=5;}
        else if(marks[i]>=0&&marks[i]<=40){grade[i]=0;}
    }
}

void output(float credits[],float grade[],int n) {
    float sum=0,cre=0,sgpa;

    for(int i=0;i<n;i++)

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{ sum = sum + (credits[i]*grade[i]);  
  cre=cre + credits[i];  
}
```

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sgpa = sum/cre;  
System.out.println("Student Details are :");
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```
System.out.println("Name : " +name);  
System.out.println("USN : " +usn);  
System.out.println("SGPA : " +sgpa);
```

```
}  
}
```

```
class Main{  
public static void main(String args[])  
{  
student s= new student();  
int n;  
Scanner input = new Scanner(System.in);  
System.out.println("Enter name of Student");  
  
s.name=input.nextLine();  
System.out.println("Enter USN");  
  
s.usn = input.nextLine();  
  
System.out.println("Enter number of subjects");  
n = input.nextInt();  
s.input(n);
```

```
s.output(s.credits, s.grade, n);
```

```
}
```

```
}
```

```
Enter name of Student
Rocky
Enter USN
157
Enter number of subjects
5
Enter credit of subject1
3
Enter marks of subject1
91
Enter credit of subject2
4
Enter marks of subject2
94
Enter credit of subject3
3
Enter marks of subject3
86
Enter credit of subject4
4
Enter marks of subject4
98
Enter credit of subject5
5
Enter marks of subject5
100
Student Details are :
Name : Rocky
USN : 157
SGPA : 9.842105
```