

```
import java.util.Scanner;
```

```
class Student
```

```
{
```

```
String usn,name;
```

```
int credits[];
```

```
float marks[];
```

```
int n;
```

```
float tot=0;
```

```
Student()
```

```
{
```

```
Scanner sc=new Scanner(System.in);
```

```
System.out.println("Enter the number of subjects");
```

```
n=sc.nextInt();
```

```
credits=new int[n];
```

```
marks=new float[n];
```

```
usn="";
```

```
name="";
```

```
}
```

```
void Accept()
```

```
{
```

```
Scanner sc=new Scanner(System.in);
```

```
System.out.println("Enter your USN and Name");
```

```
usn=sc.nextLine();
```

```
name=sc.nextLine();
```

```
System.out.println("Enter credits and marks for each subject");
```

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

```
{
```

```
credits[i]=sc.nextInt();
```

```
marks[i]=sc.nextFloat();
```

```
}
```

```
}
```

```
void Calculate()
```

```
{
```

```
int s=0;
```

```
int m=0;
```



```
int s=0;
int m=0;
float a=0;
```

```
    for(int i=0;i<n;i++)
    {
        if(marks[i]>=90)
            m=10;
        else if(marks[i]<90 && marks[i]>=80)
            m=9;
        else if(marks[i]<80 && marks[i]>=70)
            m=8;
        else if(marks[i]<70 && marks[i]>=60)
            m=7;

        else if(marks[i]<60 && marks[i]>=50)
            m=5;
        else if(marks[i]<50 && marks[i]>=40)
            m=4;
        else if(marks[i]<40)
            m=0;
```

```
        s=s+credits[i];
        a=a+(credits[i]*m);
```

```
    }
    tot=a/s;
```

```
}
void Display()
```

```
{
    System.out.println("The details of the student");
    System.out.println("USN:"+usn+" Name:"+name);
    System.out.println("Credits and Marks");
    for(int i=0;i<n;i++)
    {
```


File Edit Format View Help

```
m=5;
else if(marks[i]<50 && marks[i]>=40)
    m=4;
else if(marks[i]<40)
    m=0;

    s=s+credits[i];
a=a+(credits[i]*m);

}
tot=a/s;
}
void Display()
{
    System.out.println("The details of the student");
    System.out.println("USN:"+usn+" Name:"+name);
    System.out.println("Credits and Marks");
    for(int i=0;i<n;i++)
    {
        System.out.println(credits[i]+" "+marks[i]);
    }
    System.out.printf("SGPA %.2f",tot);
}
}
class StudentMain
{
    public static void main(String args[])
    {
        Student s1=new Student();
        s1.Accept();
        s1.Calculate();
        s1.Display();
    }
}
```

Command Prompt

operable program or batch file.

C:\Users\Admin>cd C:\Java\jdk-14.0.2\bin\sem3

C:\Java\jdk-14.0.2\bin\sem3>javac sgpa.java

C:\Java\jdk-14.0.2\bin\sem3>java StudentMain

Enter the number of subjects

4

Enter your USN and Name

18M19CS031

RAJESHWARI

Enter credits and marks for each subject

2

98

3

88

4

87

2

97

The details of the student

USN:18M19CS031 Name:RAJESHWARI

Credits and Marks

2 98.0

3 88.0

4 87.0

2 97.0

SGPA 9.36

C:\Java\jdk-14.0.2\bin\sem3>