

Week-2

WAP 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 ~~SCPA~~ SCPA of a student.

```
import java.util.Scanner;  
class student
```

```
{
```

```
    String name, USN;
```

```
    int marks[] = new int[5]
```

```
    int credits[] = new int[5]
```

```
    void input()
```

```
{
```

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

```
    System.out.println("Enter your name:");
```

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

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

```
    USN = s.next();
```

```
    System.out.println("Enter the marks of  
each subject:");
```

```
    for (int i = 0; i < 5; i++)
```

```
        marks[i] = s.nextInt();
```

```
    System.out.println("Enter the no. of  
credits for each subject");
```

```
    for (int i = 0; i < 5; i++)
```

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

```
}
```



```
void display()
```

```
{
```

```
    System.out.println("name" + name);
```

```
    System.out.println("U.N." + U.N.);
```

```
    for (int i = 0; i < 5; i++)
```

```
    {
```

```
        System.out.println("Marks of subject " + (i+1) +  
                             " = " + marks[i]);
```

```
        System.out.println("No. of credits for the subject  
                           above = " + credits[i]);
```

```
    }
```

```
void calc()
```

```
{
```

```
    int gp[point] = new int[5];
```

```
    int sgpa = 0;
```

```
    int sum = 0;
```

```
    float res;
```

```
    for (int i = 0; i < 5; i++)
```

```
    {
```

```
        if (marks[i] >= 90)
```

```
            gp[point[i]] = 10;
```

```
        else if (marks[i] >= 80)
```

```
            gp[point[i]] = 9;
```

```
        else if (marks[i] >= 70)
```

```
            gp[point[i]] = 8;
```

```
        else if (marks[i] >= 60)
```

```
            gp[point[i]] = 7;
```

```
        else if (marks[i] >= 50)
```

```
            gp[point[i]] = 6;
```

```
        else if (marks[i] >= 40)
```

```
            gp[point[i]] = 5;
```



```
else if (marks[i] < 35 && marks > 0)
    gr_point = 0;
```

```
else
```

```
System.out.println("Invalid input
for " + (i+1) + " subject");
```

```
sgpa += gr_point[i] * credits[i];
sum += (credits[i]);
```

```
}
```

```
res = (float) sgpa / sum;
```

```
System.out.println("SGPA = " + res);
```

```
}
```

```
class Sgp
```

```
{
```

```
public static void main (String ar[])
```

```
{
```

```
Student s1 = new Student();
```

```
s1.input();
```

```
s1.display();
```

```
s1.calc();
```

```
}
```

```
}
```


[week 2] Output [program - 2]

Enter your name:

Brigesh N

enter your usn:

40

enter the ~~marks~~ marks of each subject

66

77

88

56

87

enter the no of credits for each subject

4

3

3

1

3

Name: Brigesh N

USN: 40

marks of subject 1 = 66

no of credits for subj above = 4

marks of subject 2 = 77

no of credits for subj above = 3

marks of subject 3 = 88

no of credits for subj above = 3

marks of subject 4 = 56

~~marks of subject 3~~ no of credits for subj above = 1

marks of subject 3 = 87

no of credits for subj above = 3

sgpa = 8.0

```
C:\Users\bmsce\Desktop\1BM21CS040>java Sgpa
enter your name:
Brijesh N
enter your usn:
40
enter the marks of each subject
66
77
88
56
87
enter the no of credits for each subject
4
3
3
1
3
name:Brijesh N
usn:40
marks of subject1=66
no of credits for the subj above=4
marks of subject2=77
no of credits for the subj above=3
marks of subject3=88
no of credits for the subj above=3
marks of subject4=56
no of credits for the subj above=1
marks of subject5=87
no of credits for the subj above=3
sgpa=8.0
```