

Lab Program 2:

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.

OUTPUT:

```
C:\Users\anosh\OneDrive\Desktop\java practice>javac smain.java

C:\Users\anosh\OneDrive\Desktop\java practice>java smain
Enter no. of subjects:
6
enter usn, name, credits, marks for subjects
1BM21CS024
Anoshor B Paul
1 2 2 3 3 4
85
92
75
87
90
93
USN: 1BM21CS024
Name: Anoshor B Paul
Marks:
85.0 92.0 75.0 87.0 90.0 93.0
Credits:
1 2 2 3 3 4
Your SGPA is: 9.466666666666667
```

WRITTEN CODE:

LAB Program 2

2/12/22

~~import~~

import java.util.Scanner;

class student {

String usn;

String name;

~~double~~ ^{int} credits [~~6~~ ¹⁰];

~~double~~ ^{int} marks [~~6~~ ¹⁰];

void getdata() {

Scanner x = new Scanner(System.in);

System.out.println("enter usn, name, credits, marks");

usn = x.~~next~~ nextLine();

name = x.~~next~~ nextLine();

for (int i=0; i<6; i++)
credits[i] = x.next~~double~~ ^{Int} ();

~~marks~~
for (int i=0; i<6; i++)
marks[i] = x.nextDouble();

}

void putdata() {

System.out.println("USN: " + this.usn);

System.out.println("Name: " + this.name);

for (int i=0; i<6; i++) {

System.out.print("Credit, Marks ");

System.out.print(" * this.credits[i] + " " + this.marks[i], i);

}

y

// Default constructor

Student() {

System.out.println("no. of subjects: ");

Scanner s = new Scanner(System.in);

int n;

n = s.nextInt();

this.credits = new int[n];

this.marks = new double[n];

}

class smain {

public static void main (String ss[])

student s1 = new student();

s1. getsd();

s1. putsd();

s1. sgpa();

}

Test case: Enter no. of subjects
> 6

IBM21CS024

Anashor B Paul

1 2 2 3 3 4

88 88 90 76 70 99

USN: IBM21CS024

Name: Anashor B. Paul

Marks: 88.0 88.0 90.0 76.0 70.0 99.0

Credits: 1 2 2 3 3 4

Your SGPA is : 9.0

```
void sqa() {
```

```
    double marks = 0
```

```
    double t-credits = 0;
```

```
    for (int i = 0; i < 6; i++) {
```

```
        if (this.marks[i] >= 90) {
```

```
            marks = marks + (10 * (this.credits[i]));
```

```
        } else if (this.marks[i] >= 80) {
```

```
            marks = marks + (9 * (this.credits[i]));
```

```
        } else if (this.marks[i] >= 70) {
```

```
            marks = marks + (8 * (this.credits[i]));
```

```
        } else if (this.marks[i] >= 60) {
```

```
            marks = marks + (8 * (this.credits[i]));
```

```
        } else if (this.marks[i] >= 50) {
```

```
            marks = marks + (7 * (this.credits[i]));
```

```
        } else if (this.marks[i] >= 40) {
```

```
            marks = marks + (6 * (this.credits[i]));
```

```
        } else {
```

```
            marks += 0;
```

```
        }  
        t-credits += this.credits[i];
```

```
    }  
    double sqa = (marks / t-credits);
```

```
    System.out.println("Your Sqa is " + sqa);
```