

2/12/22

Lab Program 2:

Develop a Java program to create a class Student with members USN, name, an array marks.

Include methods to accept and display details and a method to calculate SGPA of a student.

```
import java.util.Scanner;  
class methods {
```

```
String USN;
```

```
String name;
```

```
int [] credits = new int [9];
```

```
int [] marks = new int [9];
```

```
int i=0;
```

```
int gp;
```

```
double sgpa;
```

```
void o
```

```
void accept () {
```

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

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

```
name = ss.next();
```

```
for (i=0; i<9; i++)
```

```
{ System.out.println ("Enter marks for subject "  
+ (i+1) + " : ");
```

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

```
for (i=0; i<9; i++) { System.out.println  
( "Enter credits of subject " + (i+1) + " : ");  
credits[i] = ss.nextInt();
```

```
}
```

```
void display () {
```

```
System.out.println ("USN: " + USN + " \n Name: "  
+ name + " \n");
```

```
for (i=0; i<9; i++) { System.out.println  
( "marks: " + marks[i] + " credits: " + credits[i] + " \n"); }
```

```
}
```

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```

void gradePoint() {
    for (i=0; i<9; i++)
    {
        if (marks[i] >= 90 && marks[i] <= 100) gp = 10;
        else if (marks[i] >= 80 && marks[i] <= 89) gp = 9;
        else if (marks[i] >= 70 && marks[i] <= 79) gp = 8;
        else if (marks[i] >= 60 && marks[i] <= 69) gp = 7;
        else if (marks[i] >= 55 && marks[i] <= 59) gp = 6;
        else if (marks[i] >= 50 && marks[i] <= 54) gp = 5;
        else if (marks[i] >= 40 && marks[i] <= 49) gp = 4;
        else if (marks[i] >
        else { gp = 0; System.out.println("subject failed");
        sgpa = sgpa + ((credits[i]) * gp);
        sgpa = sgpa + 20;
        System.out.println("Your sgpa is: " + sgpa);
    }
}

```

```

3
class main {
    public static void main(String s[])
    {
        methods m = new methods();
        m.accept();
        m.display();
        m.gradePoint();
    }
}

```

Enter your USN and name

18M21CS005

ADITI

Enter marks for subject: 1

88

Enter marks for subject: 2

90

Enter marks for subject: 3

77

Enter marks for subject: 4

78

Enter marks for subject: 5

89

Enter marks for subject: 6

90

Enter marks for subject: 7

96

Enter credits for subject: 1

3

Enter credits for subject: 2

2

Enter credits for subject: 3

1

Enter credits for subject: 4

1

Enter credits for subject: 5

3

Enter credits for subject: 6

2

Enter credits for subject: 7

4

USN: 18M21CS005

Name: ADITI

Marks: 88 Credits: 3

Marks: 90 Credits: 2

Marks: 77 Credits: 1

Marks: 78 Credits: 1

Marks: 89 Credits: 3

Marks: 90 Credits: 2

Marks: 96 Credits: 4

SGPA is: 7.5