

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 a
```

```
    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();
    }
}

```

```
C:\Users\Aditi Suhrut\Documents\Aditi\Java>java main
Enter your USN and name
1bm21cs005
aditi
Enter marks for subject 1:
92
Enter marks for subject 2:
96
Enter marks for subject 3:
97
Enter marks for subject 4:
83
Enter marks for subject 5:
99
Enter marks for subject 6:
70
Enter marks for subject 7:
92
Enter marks for subject 8:
91
Enter marks for subject 9:
88
Enter credits for subject 1:
3
Enter credits for subject 2:
4
Enter credits for subject 3:
1
Enter credits for subject 4:
3
Enter credits for subject 5:
1
Enter credits for subject 6:
3
Enter credits for subject 7:
1
Enter credits for subject 8:
3
Enter credits for subject 9:
1
USN: 1bm21cs005
Name :aditi
```

Marks: 92 Credits: 3

Marks: 96 Credits: 4

Marks: 97 Credits: 1

Marks: 83 Credits: 3

Marks: 99 Credits: 1

Marks: 70 Credits: 3

Marks: 92 Credits: 1

Marks: 91 Credits: 3

Marks: 88 Credits: 1

Your sgpa is: 9.5