

## lab Program - 2

classmate

Date

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⇒ Develop a Java prg 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.

```
import java.util.Scanner
class Student {
String String name;
    String usn;
    int cred[]; int n, i;
    double int marks[];
    void getData() {
        System.out.println("Enter your Name:");
        Scanner s1 = new Scanner(System.in);
        name = s1.next();
        System.out.println("Enter your USN:");
        usn = s1.next();
        System.out.println("Enter the number of
                               Subjects");
        n = s1.nextInt();
        cred = new int[n];
        marks = new double double[n];
        System.out.println("Enter the marks and
                               its the respective credits");
        for (i = 0; i < n; i++) {
            System.out.println("marks [" + (i+1) + "] = ");
            marks[i] = s1.nextintDouble();
            System.out.println("credits [" + (i+1) + "] = ");
            cred[i] = s1.nextInt();
        }
    }
}
```

```
void printdata() {
```

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

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

```
    System.out.println("Marks and its  
                        respective credits:");
```

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

```
        System.out.println("Subject " + (i+1) + "- Marks  
                           - " + marks[i] + "; Credits - "  
                           + cred[i]);
```

```
    }
```

```
void calc() { double sum = 0; int cre = 0;  
double float sgpa; int GP = new int[n+1];
```

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

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

```
            GP[i] = 10;
```

```
        else if (marks[i] >= 80 && marks[i] < 90)
```

```
            GP[i] = 9;
```

```
        else if (marks[i] >= 70 && marks[i] < 80)
```

```
            GP[i] = 8;
```

```
        else if (marks[i] >= 60 && marks[i] < 70)
```

```
            GP[i] = 7;
```

```
        else if (marks[i] >= 50 && marks[i] < 60)
```

```
            GP[i] = 6;
```

```
        else marks
```

```
            GP[i] = 5;
```

```
        double sum = (double)(cred[i] * GP[i])  
                  + sum;
```

```
        int cre = cred[i] + cre;
```

```
    }
```

```
    sgpa = sum / cre;
```

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

```
    System.out.printf("SGPA = %.02f", sgpa);
```

```
}
```



```
Class StudentMain() {  
    public static void main(String args[]) {  
        Student ss = new Student();  
        ss.getData();  
        ss.printData();  
        ss.calc();  
    }  
}
```