

## Student SGPA

②

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

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

```
    String USN;
```

```
    String Name;
```

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

```
    float marks[] = new float [5];
```

```
    int points[] = new int [5];
```

```
    float SGPA;
```

```
    int totalCredits = 0;
```

```
    void getDetails() {
```

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

```
        USN = SC.nextLine();
```

```
        System.out.println ("Enter student Name : ");
```

```
        Name = SC.nextLine();
```

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

```
            System.out.println ("Enter Credits for Subject "+ (i+1) + " : ");
```

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

```
            totalCredits += credits[i];
```

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

```
            marks[i] = SC.nextFloat();
```

```
        }
```

```
    }
```

```
    void showDetails() {
```

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

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

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

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

```
        }
```

```
System.out.println (" SGPA of " + Name + " is : " + (float)(SGPA/totalCredits));  
}
```

```
void calcSGPA() {
```

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

```
if (marks[i] > 100) {
```

```
System.out.println (" error: Marks are above 100");  
return;  
}
```

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

```
points[i] = 10;
```

```
}
```

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

```
points[i] = 9;
```

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

```
points[i] = 8;
```

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

```
points[i] = 7;
```

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

```
points[i] = 6;
```

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

```
points[i] = 5;
```

```
} else {
```

```
points[i] = 0;
```

```
}
```

```
SGPA += (points[i] * credits[i]);
```

```
}
```

```
}
```

```
}
```



public class Lab2 {

public static void main (String args []) {

Student1 stu1 = new Student1 ();

stu1. getDetails ();

stu1. calc SGPA ();

stu1. showDetails ();

}

}