

Java Program for Student Details & SGPA

```

import java.util.Scanner;
class Student {
    Scanner sc = new Scanner(System.in);
    String USN, Name;
    int credits[] = new int[5]
    float marks[] = new float[5]
    int points[] = new int[5]
    float SGPA;
    int totalCredits = 0;

    void input() {
        System.out.println("Enter student's USN: ");
        USN = sc.nextLine();
        System.out.println("Enter student's 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 spa () {
```

```
for (int i=0; i<5; i++) {
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```
if (marks[i] > 100) {
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```
    System.out.println("Error: marks are above 100");
```

```
    return;
```

```
}
```

```
else if (marks[i] >= 90) {
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    points[i] = 10;
```

```
} else if (marks[i] >= 80) {
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```
    points[i] = 9;
```

```
} else if (marks[i] >= 70) {
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```
    points[i] = 8;
```

```
} else if (marks[i] >= 60) {
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```
    points[i] = 7;
```

```
} else if (marks[i] >= 50) {
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```
    points[i] = 6;
```

```
} else if (marks[i] >= 40) {
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```
    points[i] = 4;
```

```
} else {
```

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

```
}
```

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

```
}
```

```
}
```



```

void display () {
    System.out.println ("Student's USN : " + USN);
    System.out.println ("Student's name : " + Name);
    for (int i = 0; i < 5; i++) {
        System.out.println ("Subject " + (i+1) + " - Credits : "
            + credits[i] + " - marks : " + marks[i]);
    }
}

```

```

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

```

```

class st {
    public static void main (String args []) {
        student s1 = new student ();
        s1.input ();
        s1.gpa ();
        s1.display ();
    }
}

```