

Student - USN, Name --

```
import java.util.*;
```

```
class Student {
```

```
    String USN;
```

```
    String name;
```

```
    int no_sub;
```

```
    int credits[];
```

```
    int marks[];
```

```
    void getd() {
```

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

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

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

```
        System.out.println("Enter name: ");
```

```
        name = scn.nextLine();
```

```
        System.out.println("No. subjects: ");
```

```
        no-sub = scn.nextInt();
```

```
        credits = new Int[no-sub];
```

```
        marks = new Int[no-sub];
```

```
        for(int i=0; i<no-sub; i++){
```

```
            System.out.println("Enter a credits for the subject");
```

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

```
            System.out.println("Enter a marks of subject");
```

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

```
        }
```

```
    }
```

```
    void putd() {
```

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

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

```
        System.out.println("Subject and credit:");
```

```
for (int i=0; i<no-sub; i++) {
```

```
    System.out.println("Subject " + (i+1) + " Marks = " +  
        marks[i] + ", credits = " + credits[i]);
```

```
}
```

```
double sgpa = calc_SGPA();
```

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

```
}
```

```
double calc_SGPA() {
```

```
    int tot_c = 0;
```

```
    int tot_P = 0;
```

```
    for (int i=0; i<no-sub; i++) {
```

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

```
        int gr-p = gradePoint(marks[i]);
```

```
        tot_c +=
```

```
        tot_P += gr-p * credits[i];
```

```
}
```

```
    return (double) tot_P / tot_c;
```

```
}
```

```
int gradePoint(int marks) {
```

```
    if (marks >= 90) return 10;
```

```
    else if (marks >= 80) return 9;
```

```
    else if (marks >= 70) return 8;
```

```
    else if (marks >= 60) return 7;
```

```
    else if (marks >= 50) return 6;
```

```
    else if (marks >= 40) return 5;
```

```
    else return 0;
```

```
}
```

```
}
```

```
public class Main {
```

```
    public static void main(String[] args) {
```

```
        Student s1 = new Student();
```

```
        s1.getd();
```

```
        s1.putd();
```

```
}
```

Handwritten signature/initials

o/p

Enter USN : IBM23CS341

Enter Name : Srushti Sunkad

Enter number of subjects :

82

Enter credits for subject : 4

Enter marks for subject : 90

Enter credit for subject : 3

Enter mark for subject : 98

USN : IBM23CS341

Name : Srushti Sunkad

Subjects and credits

Subject 1 : Marks = 90 , Credits = 4

Subject 2 : Marks = 98 , Credits = 3

SGPA : 10.0.