

```
import java.util.Scanner;
```

```
class Student{
    Scanner inp = 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 input(){
        System.out.println("Enter student USN: ");
        USN = inp.nextLine();
        System.out.println("Enter student Name: ");
        Name = inp.nextLine();
        for(int i=0;i<5;i++){
            System.out.println("Enter Credits for Subject " + (i+1) + ": ");
            credits[i] = inp.nextInt();
            totalCredits += credits[i];
            System.out.println("Enter Marks for Subject " + (i+1) + ": ");
            marks[i] = inp.nextFloat();
        }
    }
}
```

```
void calsgpa(){

    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;
        }
    }
}
```

```

        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] = 5;
    }else if(marks[i] >= 40){
        points[i] = 4;
    }else{
        points[i] = 0;
    }

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

void display(){
    System.out.println("Student USN: " + USN);
    System.out.println("Enter student 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();
        Student s2= new Student();
        s1.input();
        s1.calsgpa();
        s2.display();
        s2.input();
        s2.calsgpa();
        s2.display();

    }
}

```

```
c:\java>java st
Enter student USN:
1000
Enter student Name:
Rohit
Enter Credits for Subject 1:
3
Enter Marks for Subject 1:
67
Enter Credits for Subject 2:
4
Enter Marks for Subject 2:
71
Enter Credits for Subject 3:
4
Enter Marks for Subject 3:
65
Enter Credits for Subject 4:
3
Enter Marks for Subject 4:
60
Enter Credits for Subject 5:
5
Enter Marks for Subject 5:
74
Student USN: 1000
Enter student name: Rohit
Subject 1 - Credits: 3 - Marks: 67.0
Subject 2 - Credits: 4 - Marks: 71.0
Subject 3 - Credits: 4 - Marks: 65.0
Subject 4 - Credits: 3 - Marks: 60.0
Subject 5 - Credits: 5 - Marks: 74.0
SGPA of Rohit is: 7.4736843
Enter student USN:
```

```
Enter student USN:
1002
Enter student Name:
Rahul
Enter Credits for Subject 1:
3
Enter Marks for Subject 1:
50
Enter Credits for Subject 2:
4
Enter Marks for Subject 2:
77
Enter Credits for Subject 3:
4
Enter Marks for Subject 3:
80
Enter Credits for Subject 4:
3
Enter Marks for Subject 4:
69
Enter Credits for Subject 5:
5
Enter Marks for Subject 5:
71
Student USN: 1002
Enter student name: Rahul
Subject 1 - Credits: 3 - Marks: 50.0
Subject 2 - Credits: 4 - Marks: 77.0
Subject 3 - Credits: 4 - Marks: 80.0
Subject 4 - Credits: 3 - Marks: 69.0
Subject 5 - Credits: 5 - Marks: 71.0
SGPA of Rahul is: 7.5789475
```

```
c:\java>_
```