Lab Program 2

```java
import java.util.*;
class Student
{
    String USN;
    String name;
    int credits [];
    int marks [];
    int i,n,tot=0;
    double SGPA;

    Student()
    {
        SGPA=0;
    }
    void input()
    {
        Scanner sc = new Scanner (System.in)
        System.out.println ("Enter the USN and name of
                    student");

        USN = sc.nextLine();
        name = sc.nextLine();
        System.out.println("Enter the number of subjects");
        n = sc.nextInt();
        credits = new int [n];
        marks = new marks [n];
        for (i=0; i<n; i++)
        {
            System.out.println ("enter the credits of subject "+(i+1))
            credits [i] = sc.nextInt();
            tot = tot + credits [i];
        }
        for (i=0; i<n; i++)
        {
            System.out.println ("Enter the marks of subject "
                    +(i+1));
```

```java
        marks[i] = sc.nextInt();
    }
}

void grade_point()
{
    for(i=0; i<n; i++)
    {
        if(marks[i] >= 90 && marks[i] <= 100)
            marks[i] = 10;
        else if(marks[i] >= 80 && marks[i] < 90)
            marks[i] = 9;
        else if(marks[i] >= 70 && marks[i] < 80)
            marks[i] = 8;
        else if(marks[i] >= 60 && marks[i] < 70)
            marks[i] = 7;
        else if(marks[i] >= 50 && marks[i] < 60)
            marks[i] = 5;
        else if(marks[i] >= 40 && marks[i] < 50)
            marks[i] = 4;
        else if(marks[i] < 40)
            marks[i] = 0;
    }
}

void display() cal_SGPA
{
    System.ou for(i=0; i<n; i++)
    {
        SGPA = SGPA + (marks[i] * credits[i]);
    }
    SGPA = SGPA / tot;
}
```

```java
void display()
{
    System.out.println("-------------------");
    System.out.println("Student details are");
    System.out.println("USN : " + USN);
    System.out.println("Name : " + name);
    System.out.println("SGPA : " + SGPA);
    System.out.println("-------------------");
}
}

class lab2
{
    public static void main(String args[])
    {
        Student stu = new Student();
        stu.input();
        stu.grade_point();
        stu.cal_SGPA();
        stu.display();
    }
}
```