# LAB - Program - 2

```java
import java.util.Scanner;

class Student {
    private String USN;
    private String name;
    private double SGPA = 0;
    private int n; // n = no. of subjects
    private int totalCredits = 0;

    void accept() {
        Scanner scan = new Scanner(System.in);
        System.out.print("Enter the USN:");
        USN = scan.nextLine();
        System.out.print("Enter the name: ");
        name = scan.nextLine();
        System.out.println("Enter the no. of subjects: ");
        n = scan.nextInt();
        int credits[] = new int[n];
        double marks[] = new double[n];
        System.out.println("Enter the details of the subject: ");
        for (int i = 0; i < n; i++) {
            System.out.print("Enter the number of credits of subject "+(i+1)+":");
            credits[i] = scan.nextInt();
            System.out.print("\n Enter the marks of the subject"+(i+1)+":");
            marks[i] = scan.nextInt();
            calculate(credits[i], marks[i], i);
        }
    }
}
```

```java
void calculate (int credit, double mark, int j){
    total credits = total Credits + credit ;
    if (mark >= 90 && mark <= 100)
        SGPA = SGPA + (10 * credit);
    else if (mark >= 80 && mark <= 89)
        SGPA = SGPA + (9 * credit);
    else if (mark >= 70 && mark <= 79)
        SGPA = SGPA + (8 * credit)
    else if (mark >= 60 && mark <= 69)
        SGPA = SGPA + (7 * credit)
    else if (mark >= 50 && mark <= 59)
        SGPA = SGPA + (6 * credit)
    else if (mark >= 40 && mark <= 49)
        SGPA = SGPA + (5 * credit)
    else
        System.out.println ("Student has failed in subject" + (j+1));
}

void display () {
    System.out.println ("Details of the student are : ");
    System.out.println ("Name :  " + name);
    System.out.println ("USN: " + (SGPA/totalCredits ));
    System.out.println ("SGPA = " + (SGPA/totalCredits));
}

}

public class LabProgram2 {
    public static void main (String [ ] args) {
        Student stu = new Student ();
        stu. accept ();
        stu. display ();
    }
}
```