LAB Program - 2

```java
import java.util.Scanner;

class studentmain
{
    private int n;
    private String usn;
    private string name;
    private int cred[];
    private float mks[];
    private int gp[];
    private float gpa;
    Scanner ss = new scanner(system.in);

    studentmain()
    {
        System.out.print("Enter the number of
                            subjects : ");
        n= ss.nextInt();
        cred = new int[n];
        mks = new float[n];
        gp = new int[n];
    }


    void getstudData()
    {
        int i;
        System.out.println("\n<---- ENTER THE
                            STUDENTS DETAILS--->\n");
        System.out.println(" Enter the USN: ");
        usn = ss.next();
```

```java
System.out.println("Enter the Student Name:");
name = s.next();
System.out.println("\nEnter the marks &
                    credits in 5 subjects: \n");
for(i=0; i<n; i++)
{
    System.out.print("Enter the Credits of
                      subject " + (i+1) + " : ");
    System.out.print("Enter the Marks scored
                     in subject " + (i+1) + " : ");
    System.out.println();
}
}

void compute()
{
    int i;
    float total;
    int totcred;
    total = 0;
    totcred = 0;
    for(i=0; i<n; i++)
    {
        if(mks[i] >= 90 && mks[i] <= 100)
            gp[i] = 10;
        else if(mks[i] >= 80)
            gp[i] = 9;
        else if(mks[i] >= 70)
            gp[i] = 8;
        else if(mks[i] >= 60)
            gp[i] = 7;
        else if(mks[i] >= 50)
            gp[i] = 6;
        else if(mks[i] >= 40)
            gp[i] = 4;
        else
            gp[i] = 0;
    }
```

```java
        for(i=0; i<n; i++)
        {
            total += ((float) gp[i] * crd[i]);
            totcred += crd[i];
        }
        sgpa = (total / totcred);

    void display()
    {
        int i;
        System.out.println("\n-----STUDENT
                                DETAILS----\n");
        System.out.println("Student USN : " +usn);
        System.out.println("Student Name :" +name);
        System.out.println("Student SGPA :"+ sgpa);
        System.out.println("\nCREDITS\tMARKS\t
                            GRADE-TIME\n");
        for(i=0; i<n; i++)
        {
            System.out.println(crd[i]+"\t"+mks[i]+
                        "\t"+gp[i]);
        }
        System.out.println("-----------------\n");
    }
}


class Student
{
    public static void main(String[] args)
    {
        Studentmain s = new Studentmain();
        s.getStudData();
        s.compute();
        s.display();
    }
}
```