LAB - 2

```java
import java.util.scanner;
class student
{
    String name;
    String usn;
    int marks [] = int new int [5];
    int credits [] = new int [5];
    int i, n;
    int grade = 0;
    double total = 0;

    void get_data()
    {
        Scanner in = new Scanner (system.in);
        system.out.println ("enter student name : ");
        name = in.next ();
        system.out.println (" enter the USN: ");
        usn = in.next();
        system.out.println ("enter the no. of subjects : ");
        n = in.nextInt ();
        system.out.println ("enter the no of subjects: ");
        n = in.nextint ();
        system.out.println (" Enter subject credits
            and subject marks:");
        for (i = 0; i < n; i++)
        {
            system.out.println ("credits for subject"
                            + (i + 1) + ": ");
            credits [i] = in.nextInt ();
            system.out.println ("Marks in subject"
                            + (i+1) + " : ");
```

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

    void calculate_sgpa()
    {
        for (i = 0 ; i < n ; i++)
        {
            if (marks[i] >= 90 && marks[i] <= 100)
                grade = 10;
            else if (marks[i] >= 80 && marks[i] <= 90)
                grade = 9;
            else if (marks[i] >= 70 && marks[i] <= 80)
                grade = 8;
            else if (marks[i] >= 60 && marks[i] <= 70)
                grade = 7;
            else if (marks[i] >= 50 && marks[i] <= 60)
                grade = 6;
            else if (marks[i] >= 40 && marks[i] <= 50)
                grade = 5;
            else if (marks[i] >= 0 && marks[i] <= 40)
                grade = 0;
            else
            System.out.println ("invalid marks");
                total = total + (grade * credits [i]);
        }
            total = total/20;
            System.out.println("Sgpa =" + total);
    }
```

```java
void stud-details ()
{
    system.out.println ("Name :" + name);
    system.out.println ("USN :" + usn);
    system.out.println ("marks & credits of all
    subjects :")
        for (i=0; i<n; i++)
        {
            system.out.println ("subject :" + (i+1)+" : ");

            system.out.println ("Marks:" + marks[i]);
            system.out.println ("credits :" + credits[i]);
        }
        calculate_sgpa();
}
public static void main (String args[])
{
    student s = new student();
    s.get_data();
    s.calculate_sgpa();
    s.stud_details();
}
}
```