Lab Week 1

```java
import java.util.Scanner;
class Student {
    int i, n, res1 = 0, res2 = 0;
    double res;
    String usn;
    String name;
    int credits[];
    double marks[];
    int gp[];
    void getdata(){
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number of subjects");
        n = sc.nextInt();
        credits = new int[n];
        marks = new double[n];
        gp = new int[n];
        System.out.println("Enter your usn no");
        usn = sc.next();
        System.out.println("enter your name");
        name = sc.next();
        for(i=0; i<n; i++){
            System.out.println("enter your credits for subject");
            credits[i] = sc.nextInt();
            System.out.println("enter your marks");
            marks[i] = sc.nextDouble();
        }
    }
}
```

```java
void printdata () {
    System.out.println (" Student details : ");
    System.out.println ("USN: " + usn);
    System.out.println ("Name" + name);
    for (i = 0; i < n; i++) {
        System.out.println (" Credits : " + credit[i]);
        System.out.println (" Marks : " + marks[i]);
    }
}

void sgpa () {
    for (i = 0; i < n; i++) {
        if (marks[i] <= 100 && marks[i] >= 90)
            gp[i] = 10;
        else if (marks[i] >= 80)
            gp[i] = 9;
        else if (marks[i] >= 70)
            gp[i] = 8;
        else if (marks[i] >= 60)
            gp[i] = 7;
        else if (marks[i] >= 50)
            gp[i] = 6;
        else if (marks[i] >= 40)
            gp[i] = 4;
        else if (marks[i] < 40)
            gp[i] = 0;
    }
    for (i = 0; i < n; i++)
        res1 += credit[i];
    for (i = 0; i < n; i++)
        res2 += (credit[i] * gp[i]);
```

```java
// res = (double)(res2/res1);
System.out.println("SGPA" + (double)res2/res1);
    }
}

class Testj {
    public static void main(String[] args) {
        Student stu = new Student();
        stu.getdata();
        stu.printdata();
        stu.sgpa();
    }
3.
```