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Lab Program 2

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

    Student()
    {
        SGPA = 0;
    }

    void input() {
        Scanner sc = new Scanner(System.in);
        System.out.println("\n Enter the USN and the
        name of the student : ");
        USN = sc.nextLine();
        name = sc.nextLine();
        System.out.println("\n Enter the number of
        subjects: ");
        n = sc.nextInt();
        credits = new int[n];
        marks = new int[n];
        for(int i=0; i<n; i++)
        {
            System.out.println("\n Enter the marks
            of the student for the subject: "+(i+1));
```

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

void grade_points()
{
    int i;
    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] = 6;
        }
        else if(marks[i] >= 40 && marks[i] <50)
        {
            marks[i] = 5;
        }
        else if(marks[i] < 40)
        {
```

```java
            marks[i] = 0;
        }
    }
}

void calculate_SGPA()
{
    int i;
    for (i=0; i<n; i++)
    {
        SGPA = SGPA + (credits[i] * marks[i]);
    }

    SGPA = SGPA / total;
}

void display_details()
{
    System.out.println("\n The student with
USN : " +USN+ ", Name : " +name+ " has
Secured SGPA : " + SGPA);
}

public static void main (String [] args)
{
    Student obj = new Student();
    obj.input();
    obj.grade_points();
    obj.calculate_SGPA();
    obj.display_details();
    }
}
```