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<u>LAB-4</u> (OOJ)

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

    Student()
    {  tot = 0;
       SGPA = 0;
    }

    void input()
    {  int i;
       Scanner sc = new Scanner(System.in);
       System.out.println("Enter USN and name
                          of the student");
       USN = sc.nextLine();
       name = sc.nextLine();
       System.out.println("Enter the numb of subject");
       n = sc.nextInt();
       credits = new int[n];
       marks = new int[n];
       for(i=0; i<n; i++)
       {
            System.out.println("Enter the credits for
                               subject :" + (i+1));
            credits[i] = sc.nextInt();
            tot = tot + credits[i];
       }
       for(i=0; i<n; i++)
       {
            System.out.println("enter the marks for
                               student in sub:" + (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] = 4;
        else if (marks [i] < 40)
            marks [i] = 0;
    }
}

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

```
void display ()
{
    System.out.println ("The student with
            USN:" + USN + ",Name:" + name + " ha
        acquired SGPA :"+ SGPA);
}

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