

## Lab 2 Program

```
import java.util.*;  
public class student  
{
```

```
    String usn, name;  
    static int credits[];  
    static double marks[];
```

```
    void input (int n)
```

```
{
```

```
    Scanner sc = new Scanner (System.in);
```

```
    System.out.println ("enter usn & name");
```

```
    usn = sc.nextInt();
```

```
    name = sc.nextLine();
```

```
    System.out.println ("enter marks along with credits");
```

```
    for (int i=0; i<n; i++)
```

```
{
```

```
        marks[i] = sc.nextDouble();
```

```
        credits[i] = sc.nextInt();
```

```
    System.out.println();
```

```
}
```

```
}
```

```
double calculate (int n)
```

```
{
```

```
    int c, cred = 0;
```

```
    double tot, total = 0.0;
```

```
    for (int i=0; i<n; i++)
```

```
{
```

```
        tot = marks[i];
```

```
        if (tot > 90)
```

```
            c = 10;
```

```
        else if (tot >= 80)
```

```
            c = 9;
```

```
        else if (tot >= 70)
```

```

        C=8;
    else if (tot >= 60)
        C=7;
    else if (tot >= 50)
        C=6;
    else if (tot >= 40)
        C=4;
    else

```

```

        C=0;
        total = total + (C * credits[i]);
        cred = cred + credits[i];
    }
    total = total / cred;
    return (total);
}

```

```

void display (int n, double total)
{

```

```

    System.out.println("name of student: " + name);
    System.out.println("Usn of student: " + usn);
    System.out.println("marks of student along
        with credits");

```

```

    for (int i = 0; i < n; i++)
    {

```

```

        System.out.println(marks[i] + " " + credits[i]);
    }
    System.out.println("sgpa of student: " + total);
}
public static void main (String args[])
{
    Scanner sc = new Scanner(System.in);
    Student obj = new Student();

```

```

    System.out.println("enter no of course");
    int n = sc.nextInt();

```

```

    Credits = new int[n];
    marks = new double[n];
    double total = obj.calculate(n);

```

```

    obj.display(n, total);
}
}

```