

LAB-2.

- * Develop a Java prog to create a class student with members usn, name, an array credits and an array marks. Include the method to accept & display details & a method to calculate SGPA of a student.

```

import java.util.Scanner;
class Main Student
{
    String usn, name;
    static int credits[];
    static double marks[];
    void input (int n)
    {
        Scanner sc = new Scanner(System.in);
        SOP("Enter usn & name");
        usn = sc.nextLine();
        name = sc.nextLine();
        SOP("Enter marks along with cred\n");
        for (int i=0; i<n; i++)
        {
            marks[i] = sc.nextDouble();
            credits[i] = sc.nextInt();
            SOP();
        }
    }
    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 = 5;
```

```
    else
```

```
        c = 0;
```

```
    total = total + (c * credits[i]);
```

```
    cred = cred + credits[i];
```

```
}
```

```
total = total / cred;
```

```
return (total);
```

```
}
```

```
void display (int n, double total)
```

```
{
```

```
    SOP ("name of student : " + name);
```

```
    SOP ("usrn of student : " + usn);
```

```
    SOP ("marks of student along with credits of course");
```

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

```
    SOP (marks[i] + " " + total);
```

```
}
```

```
public static void main (String args[])  
{
```

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

```
    Student obj = new Student();
```

```
    SOP ("Enter no of course");
```

```
    int n = sc.nextInt();
```

```
    credits = new int [n];
```

```
    marks = new double [n];
```

```
    obj.input(n);
```

```
    double total = obj.calculate(n);
```

```
    obj.display (n, total);
```

```
}
```

```
}
```