

Lab Program 2:

Develop Java program to create class student with members usn, name, an array credits and an array marks. Include method to accept data display and calculate sgpa of a student.

```
import java.util.*;
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 and name");
        usn = sc.nextLine();
        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();
        }
    }
    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, float total)
{
    System.out.println("Name: " + name);
    System.out.println("USN: " + usn);
    System.out.println("Marks with credits:");
    for (int i = 0; i < n; i++)
        System.out.println(marks[i] + " " + credits[i]);
    System.out.println("SGPA: " + 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 int[n];  
    marks = new double[n];  
    obj.input(n);  
    double total = obj.calculate(n);  
    float res = (float) total;  
    obj.display(n, res);  
}  
}
```