

LAB PROGRAM-2.

```
import java.util.Scanner;
class Student
{
    private String USN;
    private String name;
    private double SGPA = 0;
    private int totalCredits = 0;
    private double[] marks;
    private int [] credits;
    private int i;

    void accept()
    {
        int n;
        Scanner scan = new Scanner(System.in);
        System.out.println("Enter USN of the student");
        USN = scan.nextLine();
        System.out.println("Enter Name of student");
        name = scan.nextLine();
        System.out.println("Enter number of subjects:");
        n = scan.nextInt();
        credits = new int[n];
        marks = new double[n];
        System.out.println("Enter credits for details of the subjects:");
        for(int i=0; i<n; i++)
        {
            System.out.println("Enter credits for subject" + (i+1));
            marks[i] = scan.nextInt();
            Calculate();
        }
    }
}
```

void Calculate()
{

totalCredits = totalCredits + credits[i];

if (marks[i] >= 90 && marks[i] <= 100)

SGPA = SGPA + (10 * credits[i]);

else if (marks[i] >= 80)

SGPA = SGPA + (9 * credits[i]);

else if (marks[i] >= 70)

SGPA = SGPA + (8 * credits[i]);

else if (marks[i] >= 60)

SGPA = SGPA + (7 * credits[i]);

else if (marks[i] >= 50)

SGPA = SGPA + (6 * credits[i]);

else if (marks[i] >= 40)

SGPA = SGPA + (5 * credits[i]);

else

System.out.println("failed in this subject.");

}

void Display()
{

System.out.println("Details of the Student");

System.out.println("USN: " + USN);

System.out.println("Name: " + name);

System.out.println("SGPA of student " + (SGPA / totalCredits));

}

}

class Main {

public static void main (String args []) {

Student s1 = new Student ();

s1.accept ();

s1.Display ();

}