

```
import java.util.Scanner;
class Student
{
    String usn, name;
    int credits[];
    float marks[];
    int n;
    float tot = 0;
    Student()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number of Subjects");
        n = sc.nextInt();
        credits = new int[n];
        marks = new float[n];
        usn = " ";
        name = " ";
    }
}
```

```
void Accept()
{
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter your USN and Name");
    usn = sc.nextLine();
    name = sc.nextLine();
    System.out.println("Enter credits and marks for each Subject");
    for (int i = 0; i < n; i++)
    {
        credits[i] = sc.nextInt();
        marks[i] = sc.nextFloat();
    }
}
```

```
void Calculate()
{
    int s = 0;
    int m = 0;
    float a = 0;
    for (int i = 0; i < n; i++)
    {

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    if (marks[i] >= 90)
        m = 10;
    else if (marks[i] < 90 && marks[i] >= 80)
        m = 9;
    else if (marks[i] < 70 && marks[i] >= 60)
        m = 7;
    else if (marks[i] < 60 && marks[i] >= 50)
        m = 5;
    else if (marks[i] < 50 && marks[i] >= 40)
        m = 4;
    else if (marks[i] < 40)
        m = 0;

    s = s + credits[i];
    a = a + (credits[i] * m);
}
tot = a / s;
}
void Display()
{
    System.out.println("The details of the student");
    System.out.println("USN: " + usn + " Name: " + name);
    System.out.println("Credits and Marks");
    for (int i = 0; i < n; i++)
    {
        System.out.println(credits[i] + " " + marks[i]);
    }
    System.out.printf("SGPA : %.2f", tot);
}
}
class StudentMain
{
    public static void main (String args[])
    {
        Student s1 = new Student();
        s1.Accept();
        s1.Calculate();
        s1.Display();
    }
}

```