Program 2

```java
import java.util.*;
class Student{
    String USN;
    String name;
    int n;
    double SGPA;
    int totalCredits;
    int credits[];
    double marks[];
    Scanner in = new Scanner(System.in);

    void accept()
    {
    System.out.println("Enter USN of the student");
    USN = in.nextLine();
    System.out.println("Enter Name of the student");
    name = in.nextLine();
    System.out.println("Enter no of subjects");
    n = in.nextInt();
    credits = new int[n];
    marks = new double[n];
    System.out.println("Enter details of the subjects:");
    for(int i=0;i<n;i++)
    {
        System.out.println("Enter credits for subject "+(i+1));
        credits[i] = in.nextInt();
        System.out.println("Enter marks for subject "+(i+1));
        marks[i] = in.nextInt();
        Calculate(credits[i],marks[i],i);
    }
    }


    void Calculate(int credit,double mark,int j)
    {
        totalCredits = totalCredits + credit; if(mark>=90&&mark<=100)
        SGPA = SGPA + (10*credit);
        else if(mark>=80 && mark<=89)
        SGPA = SGPA + (9*credit);
        else if(mark>=70&&mark<=79)
        SGPA = SGPA + (8*credit);
        else if(mark>=60&&mark<=69)
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        SGPA = SGPA + (7*credit);
    else if(mark>=50 && mark<=59)
        SGPA = SGPA + (6*credit);
    else if(mark>=40&&mark<=49)
        SGPA = SGPA + (5*credit);
    else
        System.out.println("Failed in Subject "+(j+1));
}


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 studentmain{
public static void main(String args[]) {
    Student s1 = new Student();
s1.accept();
s1.Display();
}
}
```