

Program 2

```
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.nextDouble();
            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();
    }
}

```

The screenshot shows an IDE with two windows. The left window displays the Java code for the Student class and its main method. The right window shows the output of the program, which prompts the user to enter USN, Name, and Marks for three subjects. The output shows the calculated SGPA for the student.

```

c:\Users\studentmain> javac studentmain.java
c:\Users\studentmain> java studentmain
Enter USN of the student
18MBC5119
Enter Name of the student
PRAKASH
Enter no of subjects
3
Enter details of the subjects:
Enter credits for subject 1
3
Enter marks for subject 1
85
Enter credits for subject 2
4
Enter marks for subject 2
97
Enter credits for subject 3
4
Enter marks for subject 3
85
Enter marks for subject 3
85
Details of the Student
USN: 18MBC5119
Name: PRAKASH
SGPA of Student 9.363636363636363

```