```java
import java.util.Scanner;

class Student{

    Scanner ss= new Scanner(System.in);

    String USN;

    String Name;

    int credits[]= new int[5];

    double marks[]= new double[5];

    int points[]= new int[5];

    double SGPA;

    int totalCredits= 0;


    void getDetails(){

        System.out.println("Enter the Student USN: ");

        USN= ss.nextLine();

        System.out.println("Enter the name of the Student: ");

        Name= ss.nextLine();

        for(int i=0;i<5;i++){

            System.out.println("Enter the amount of Credits for Subject " + (i+1) + ": ");

            credits[i]= ss.nextInt();

            totalCredits+= credits[i];

            System.out.println("Enter the Marks obtained by the student for Subject " + (i+1) + " out of 100: ");

            marks[i]= ss.nextDouble();

        }

    }


    void printDetails(){


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

```java
        System.out.println("Student Name: " + Name);

        for(int i=0;i<5;i++){

            System.out.println("Subject " + (i+1) + " :     Credits: " + credits[i] + "   -->
Marks: " + marks[i]);

        }

        System.out.println("SGPA of " + Name + " is: " + (double)(SGPA/totalCredits));
    }

    void sumSGPA(){

        for(int i=0;i<5;i++){

            if(marks[i] >= 91){

                points[i] = 10;

            }
            else if(marks[i] >= 81){

                points[i] = 9;

            }
            else if(marks[i] >= 71){

                points[i] = 8;
```

```java
                    }
                    else if(marks[i] >= 61){

                            points[i] = 7;

                    }
                    else if(marks[i] >= 51){

                            points[i] = 5;

                    }
                    else if(marks[i] >= 41){

                            points[i] = 4;

                    }
                    else{

                            points[i] = 0;

            }

        SGPA += (points[i]*credits[i]);
        }
    }
}

public class LAB2 {
```

```java
public static void main(String args[]){

    Student s1= new Student();

    s1.getDetails();

    s1.sumSGPA();

    s1.printDetails();


    }

}
```

```
C:\Users\adity\Desktop\3-D\OOJ\OOJ LAB>java LAB2
Enter the Student USN:
1BM19CS191
Enter the name of the Student:
ADITYA SATISH KUMAR
Enter the amount of Credits for Subject 1:    █
5
Enter the Marks obtained by the student for Subject 1 out of 100:

93
Enter the amount of Credits for Subject 2:
4
Enter the Marks obtained by the student for Subject 2 out of 100:
84
Enter the amount of Credits for Subject 3:
5
Enter the Marks obtained by the student for Subject 3 out of 100:
88
Enter the amount of Credits for Subject 4:
5
Enter the Marks obtained by the student for Subject 4 out of 100:
99
Enter the amount of Credits for Subject 5:
5
Enter the Marks obtained by the student for Subject 5 out of 100:
95
```

```
Enter the amount of Credits for Subject 5:
5
Enter the Marks obtained by the student for Subject 5 out of 100:
95
Student USN: 1BM19CS191
Student Name: ADITYA SATISH KUMAR
Subject 1 :         Credits: 5      --> Marks: 93.0
Subject 2 :         Credits: 4      --> Marks: 84.0
Subject 3 :         Credits: 5      --> Marks: 88.0
Subject 4 :         Credits: 5      --> Marks: 99.0
Subject 5 :         Credits: 5      --> Marks: 95.0
SGPA of ADITYA SATISH KUMAR is: 9.625

C:\Users\adity\Desktop\3-D\OOJ\OOJ LAB>
```