Develop a Java program to create a class Student with members usn, name, an array credits and an array marks. Include methods to accept and display details and a method to calculate SGPA of a student.

```java
import java.util.*;
class Student {
        private String usn;
        private String name;
    private     int credits[];
        private int marks[];
        private int n;

        void accept()
        {
                Scanner s=new Scanner(System.in);
                System.out.println("Enter student details");
                System.out.println("USN:");
                usn=s.next();
                System.out.println("Name:");
                name=s.next();
                System.out.println("Enter the number of subjects:");
                n=s.nextInt();
                credits=new int[n];
                marks=new int[n];
                System.out.println("Enter credits and marks attained by the student in each subject");
                for(int i=0;i<n;i++)
```

```java
        {
                credits[i]=s.nextInt();

                marks[i]=s.nextInt();

        }

}

void display()

{

        System.out.println("Student details:");

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

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

        System.out.println("Marks in each subject:");

        for(int i=0;i<n;i++)

        {

                System.out.println("Subject "+(i+1)+":"+marks[i]);

        }

}

double calculate()

{

        int tcp=0,tc=0;

        for(int i=0;i<n;i++)

        {

                tc=tc+credits[i];

                if(marks[i]>=50)

                {

                tcp=tcp+(((marks[i]/10)+1)*credits[i]);

                }
```

```java
                else if(marks[i]>=40 && marks[i]<50)
                {
                        tcp=tcp+(4*credits[i]);
                }
        }
        return (double)tcp/tc;
    }
}

class StudentMain
{

    public static void main(String ss[]) {
        Student s1=new Student();
        s1.accept();
        s1.display();
        System.out.println("SGPA: "+s1.calculate());
    }
}
```

```
C:\Users\win10\Documents\Java lab programs>javac StudentMain.java

C:\Users\win10\Documents\Java lab programs>java StudentMain
Enter student details
USN:
1BM19CS100
Name:
Niharika
Enter the number of subjects:
5
Enter credits and marks attained by the student in each subject
4 77
5 78
3 74
4 75
4 77
Student details:
USN:1BM19CS100
Name:Niharika
Marks in each subject:
Subject 1:77
Subject 2:78
Subject 3:74
Subject 4:75
Subject 5:77
SGPA: 8.0
```