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.

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



public class Main
    {

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

    }
```

```
Enter student details
USN:
123
Name:
ABC
Enter the number of subjects:
3
Enter credits and marks attained by the student in each subject
12
13
14
15
Student details:
USN:123
Name:ABC
Marks in each subject:
Subject 1:13
Subject 2:15
SGPA: 0.0


...Program finished with exit code 0
Press ENTER to exit console.
```

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```
import java.util.*;
class Student {
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
  usn = S.next ();
    System.out.println("Name")
  name = S.next ();
      System.out.println("Enter the number of Subjects")
n = S.next.int();
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++);
{
credit [i] = S.next.int();
marks [i] = S.next.int();
  }
}
void display ()
  {
System.out.println("Student details:");
System.out.println(" usn:" + usn);
System.out.println("Name: +name);
  System.out.println("Marks in each subject");
```

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```
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)* credits[i]
{
}
return (double) tcp/tc
}
}
Public class main
{
Student
Public static void main (String as[]){
Student s! = new student ();
s1 accept ();
s1 display ();
System.out.println("SGPA :"+s1.calculate());
}
}
```

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Algorithm
Enter usn, name, subject, credits and marks
Apply in formula: SGPA
Calculate SGPA percentage
Print the SGPA percentage

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