2. 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.Scanner;
class Student
   private String USN;
   private String name;
   private int n;
   private double SGPA = 0;
   private int totalCredits = 0;
 private int credits[];
 private double marks[];
   Scanner ss = new Scanner(System.in);
   void Details()
   System.out.println("Enter USN of the student");
   USN = ss.nextLine();
   System.out.println("Enter Name of the student");
   name = ss.nextLine();
   System.out.println("Enter no of subjects");
   n = ss.nextInt();
    credits = new int[n];
   marks = new double[n];
    System.out.println("*Enter details of the subjects:*");
    for(int i=0;i<n;i++)</pre>
        System.out.println("Enter credits allotted to the subject "+(i+1));
        credits[i] = ss.nextInt();
        System.out.println("Enter marks in the subject "+(i+1));
        marks[i] = ss.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)
```

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SGPA = SGPA + (9*credit);
        else if(mark>=70&&mark<=79)</pre>
            SGPA = SGPA + (8*credit);
        else if(mark>=60&&mark<=69)</pre>
            SGPA = SGPA + (7*credit);
        else if(mark>=50 && mark<=59)
            SGPA = SGPA + (6*credit);
        else if(mark>=40&&mark<=49)</pre>
            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 Main
    public static void main(String args[])
        Student s1 = new Student();
        s1.Details();
        s1.Display();
```

output:

