Exp No: 1- B **SINE SERIES**

Date: 29/ 11/22

.

AIM:

To draw a flow chart and write an algorithm for sine series.

ALGORITHM:

Step 1: Start

Step 2: Get the value of x, n

Where x must be in degree.

Step 3: Initialize i=1, s= -1**I, sine=0 and import math.

Step 4: Check for condition i<=n

4.1: If condition is true, convert x to radian using the formula

4.2: Then calculate sine series using the formula:

Sine=sine +y**(2*i=1).factorial(2*i+1)*s

4.3: Increment of i by 1

Step 5: If condition is false, display sine and goto stop

ROLL No: 22CSEB25
Name: SHREEVARSHINI R

PSEUDO CODE

START

GET value of x,n

x must be in degree

INITIALIZE i=1,s=-1**I,sine=0

Import math

IF i<=n THEN

Convert x to radian using formula

CALCULATE

Sine=sine+y**(2*i=1).factorial(2*i+1)*s

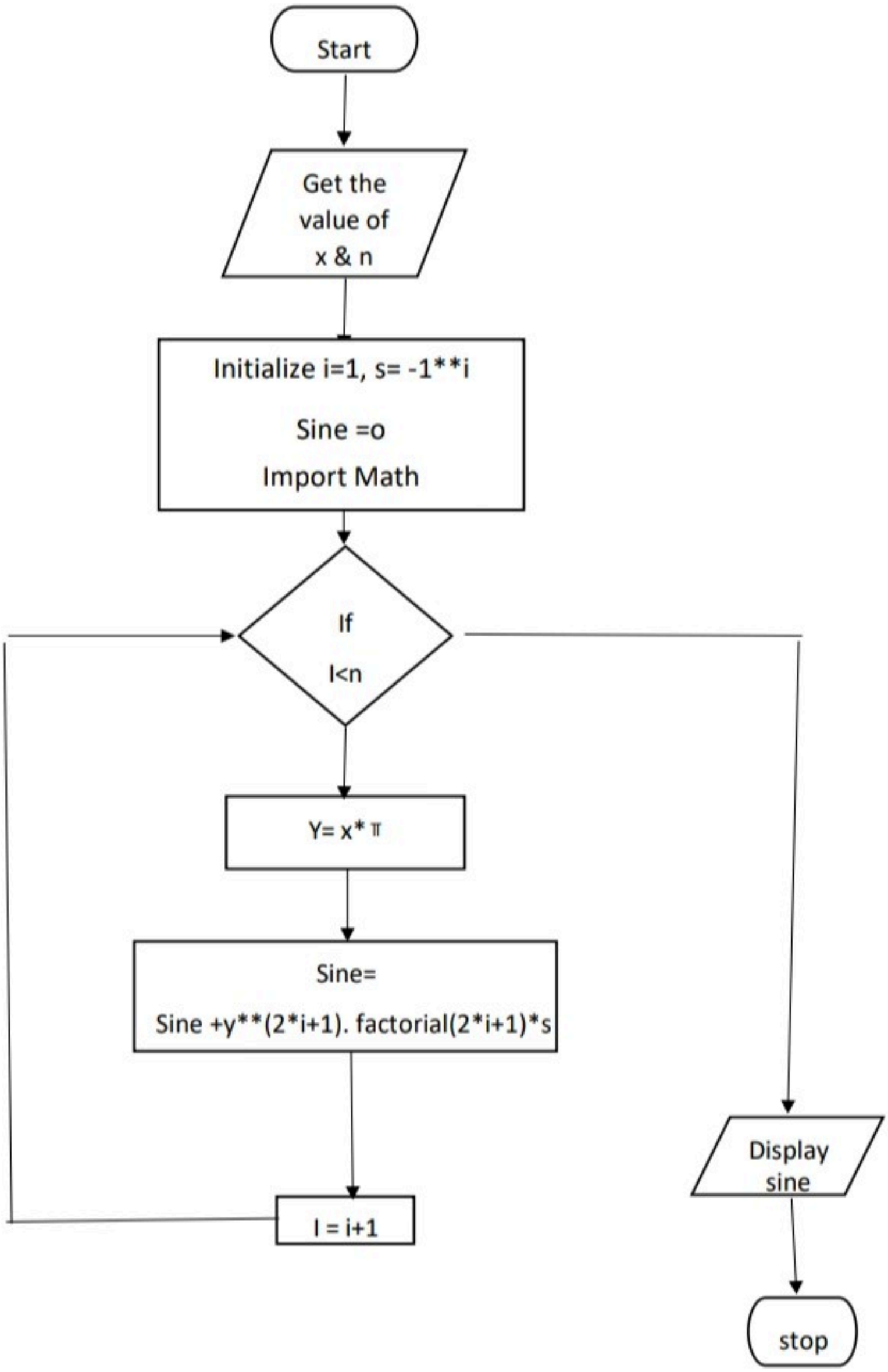
i=i+1

ELSE

Display sine

STOP

FLOW CHART:



RESULT:

Thus, the flowchart and the algorithm is written for the problem

ROLL No: 22CSEB25
Name: SHREEVARSHINI R