ProgramAsignment1

Source code

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using static System.Console;

namespace ProgramAsignment1

{

internal class Program

{

static bool input\_check(int input) {

if (input >= 30 && input <= 45)

return true;

else

return false;

}

static double mysin(double degrees)

{

double radians = degrees \* Math.PI / 180;

return Math.Sin(radians);

}

static double mycos(double degrees)

{

double radians = degrees \* Math.PI / 180;

return Math.Cos(radians);

}

static double mytan(double degrees)

{

double radians = degrees \* Math.PI / 180;

return Math.Tan(radians);

}

static void Display(double degrees, double s, double c, double t) {

WriteLine("{0} {1:N4} {2:N4} {3:N4}", degrees,s,c,t);

}

static void Main(string[] args)

{

Write("Input maxDegree number in the range 30-45: ");

int maxDegrees = Convert.ToInt32(ReadLine());

if (input\_check(maxDegrees))

{

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

{

double sin = mysin(i);

double cos = mycos(i);

double tan = mytan(i);

Display(i, sin, cos, tan);

}

}

else

WriteLine("Sorry, your input is incorrect");

ReadKey();

}

}

}

Outputs

Text

Description automatically generated

Text

Description automatically generated with low confidence

Flow chart

Diagram

Description automatically generated