***PROJECT NAME: Sacientific Calculator***

***PROGRAMMIG FUNDAMENTAL***

GROUP MEMBERS:

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***CODING:***

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace Muzamil\_Scientific\_Calculator

{

class Program

{

static void Main(string[] args)

{

//The First Page Which Holds The INformatio Of This App

Console.Title = "MK Scientific Operstion Calculator)";

Console.BufferHeight = 100;

Console.ForegroundColor = ConsoleColor.Cyan;

Console.WriteLine("\n\n\n\n");

Console.WriteLine("\t\t\tWelcome To Scientic Calculator Where You Perform Scientific Operations Easily");

Console.WriteLine("\n\n");

Console.ResetColor();

Console.ForegroundColor = ConsoleColor.Yellow;

Console.WriteLine("\t\t\t(A Scientific Calculator Project By Muzamil Khan Muneeb Kazmi And Zain Zahid)");

Console.WriteLine("\n\n");

Console.WriteLine("\t\t\t\t\t\tPlease Give Rating To Our App");

Console.WriteLine("\n\n");

Console.WriteLine("\t\t\t\t\t\tPRESS Space Bar To Continue.......");

Console.ReadKey();

Console.Clear();

Console.ForegroundColor = ConsoleColor.Yellow;

Console.WriteLine("\n\n");

Console.WriteLine("\t\t\t\t\tFunctions Of This Calculator");

Console.ResetColor();

Console.ForegroundColor = ConsoleColor.Gray;

// Introduction To Operations Which This Calculator Performs

Console.WriteLine("\n");

Console.WriteLine("\t\t\t\tThis Calculator Performs Following Major Functions");

Console.WriteLine("\tYou Should Input The Values Again If You HAve To Do Basic Functions Like Calculating Area OF Circle and etc");

Console.WriteLine("\n");

Console.WriteLine("\t1): Addition");

Console.WriteLine("\t2): Subtraction");

Console.WriteLine("\t3): Multiplication");

Console.WriteLine("\t4): Division");

Console.WriteLine("\t5): Percentage");

Console.WriteLine("\t6): Exponential Power");

Console.WriteLine("\t7): Power");

Console.WriteLine("\t8): Area Of Circle");

Console.WriteLine("\t9): Area Of Rectangle");

Console.WriteLine("\t10): Convert degrees in to radians");

Console.WriteLine("\t11): Calculate The Value Of Pie");

Console.WriteLine("\t12): Calculate The Cube");

Console.WriteLine("\n\n");

Console.ForegroundColor = ConsoleColor.Magenta;

Console.WriteLine("\t\t\t\t\tPress Any Key To Start The CAlculator.......");

Console.ReadKey();

Console.ResetColor();

Console.Clear();

Console.ForegroundColor = ConsoleColor.Yellow;

Console.WriteLine("\t\t\t\tWelcome To The Mk Scientific Calculator");

Console.ResetColor();

// Declaring Of Input

int functions = 0;

double sum = 0, num, c, l, b, d;

// Take First Inputs From User

Console.WriteLine("\n");

Console.ForegroundColor = ConsoleColor.Green;

Console.Write("\t\t\tEnter The First Number Here (For Simple Calculations): ");

string stringNum1 = Console.ReadLine();

double num1 = Convert.ToDouble(stringNum1);

// Take First Inputs From User

Console.Write("\t\t\tEnter The Second Number Here (For Simple Calculations) : ");

string stringNum2 = Console.ReadLine();

double num2 = Convert.ToDouble(stringNum2);

Console.WriteLine("\n\n");

Console.ResetColor();

//The Function Which I Used In This Calculator

Console.WriteLine("Select The Functions You Want To Do: ");

Console.WriteLine("\n");

Console.WriteLine("(+) Addition");

Console.WriteLine("(-) Subtraction");

Console.WriteLine("(\*) Multiplication");

Console.WriteLine("(/) Division");

Console.WriteLine("(%) Percentage");

Console.WriteLine("(Ep) Exponential Power");

Console.WriteLine("(p) Power");

Console.WriteLine("(a) Area Of Circle");

Console.WriteLine("(r) Area Of Rectangle");

Console.WriteLine("(d) Convert degrees in to radians");

Console.WriteLine("(pie) Calculate The Value Of Pie");

Console.WriteLine("(cube) Calculate The Cube");

Console.WriteLine("\n");

string operators = Console.ReadLine();

//This Portion Is For Declaring The Function Which I have Used In This Project

if (operators == "+" || operators == "Addition")

{

functions = 1;

}

else if (operators == "-" || operators == "Subtraction")

{

functions = 2;

}

else if (operators == "\*" || operators == "Multiplication")

{

functions = 3;

}

else if (operators == "/" || operators == "Division")

{

functions = 4;

}

else if (operators == "%" || operators == "Percentage")

{

functions = 5;

}

else if (operators == "Ep" || operators == "Exponential Power")

{

functions = 6;

}

else if (operators == "p" || operators == "Power")

{

functions = 7;

}

else if (operators == "a" || operators == "Area Of Circle")

{

functions = 8;

}

else if (operators == "r" || operators == "Area Of Rectangle")

{

functions = 9;

}

else if (operators == "d" || operators == "Convert degrees in to radians")

{

functions = 10;

}

else if (operators == "pie" || operators == "Calculate The Value Of Pie")

{

functions = 11;

}

else if (operators == "cube" || operators == "Calculate The Cube")

{

functions = 12;

}

else

{

Console.WriteLine("You Have Enter An Invalid Function And Your Sum Is 0");

}

// The Portion Of Swich Cases Used In This Project

switch (functions)

{

case 1:

sum = num1 + num2;

break;

case 2:

sum = num1 - num2;

break;

case 3:

sum = num1 \* num2;

break;

case 4:

sum = num1 / num2;

break;

case 5:

sum = num1 % num2;

break;

case 6:

sum = Math.Pow(num1, num2);

break;

case 7:

Console.Write("So Enter A New Number To Get The Power: ");

num = double.Parse(Console.ReadLine());

sum = num \* num;

break;

case 8:

Console.Write("So Enter Here The Circumference Of A Circle: ");

c = double.Parse(Console.ReadLine());

sum = c / 2 \* 3.14;

break;

case 9:

Console.Write("So Enter Here The Leghth Of A Circle: ");

l = double.Parse(Console.ReadLine());

Console.Write("So Enter Here The Breath Of A Circle: ");

b = double.Parse(Console.ReadLine());

sum = l \* b;

break;

case 10:

Console.Write("So Enter Here The New Number In Degrees here to convert it into radians: ");

d = double.Parse(Console.ReadLine());

sum = d \* 3.14 / 180;

break;

case 11:

Console.Write("So Enter Here The Diameter: ");

d = double.Parse(Console.ReadLine());

Console.Write("So Enter Here The Circumference: ");

c = double.Parse(Console.ReadLine());

sum = c / d;

break;

case 12:

Console.Write("So Enter Here New Number: ");

num = double.Parse(Console.ReadLine());

sum = num \* num \* num;

break;

}

// The Result Shows Here\

Console.ForegroundColor = ConsoleColor.Magenta;

Console.Write("\t\t\t\tThe Result Of Your Given Inputs Are: {0}", sum);

Console.ReadLine();

}

}

}

***Output:***

