using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace CsLesson2

{

public class Program

{

enum Days { Monday = 1, Tuesday, Wednesday, Friday, Saturday, Sunday };

enum Colors { Red = 1, Green = 2, Blue = 3, Magenta = 4 };

enum Operators {Plus = '+', Minus = '-', Multiply = '\*', Divide = '/'}

static void Add(int num1, int num2 = 0)

{

var result = num1 + num2;

Console.WriteLine(result);

}

static void Add(int num1, int num2, int num3)

{

var result = num1 + num2 + num3;

Console.WriteLine(result);

}

static void Change(ref int number)

{

number = 0;

}

static void Add(int num1, int num2, out int sum)

{

sum = num1 + num2;

}

static void Multiply(int num1, int num2, out int product)

{

product = num1 \* num2;

}

static void Subtract(int num1, int num2, out int difference)

{

difference = num1 - num2;

}

static bool Divide(int num1, int num2, out int divisionresult)

{

if (num2 != 0)

{

divisionresult = num1 / num2;

return true;

}

else

{

divisionresult = 0;

Console.WriteLine("Zero Division Error!");

return false;

}

}

static void Main(string[] args)

{

Console.Title = "C# Lesson 2";

#region MyRegion

// String string eynidirler

//string text = " John123 ";

//Console.WriteLine(text);

//Console.WriteLine(text.Length);

//text = text.Trim();

//Console.Write(text);

//text = text.TrimStart();

//Console.WriteLine(text);

//text = text.TrimEnd();

//Console.Write(text);

//String text = "S?l?m";

//Console.WriteLine(text);

//text = text.Replace("?", "");

//Console.WriteLine(text);

//text = text.Replace("?", "a");

//Console.WriteLine(text);

//String fruits = "Apple,Mango,Melon,Pineapple,Banana";

//var result = fruits.Split(',');

//Console.WriteLine(result);

//for (int i = 0; i < result.Length; i++)

//{

// Console.WriteLine(result[i]);

//}

//foreach (var i in result)

//{

// Console.WriteLine(i);

//}

//string email = "elvin123@gmail.com";

//String email2 = "elvin123@mail.ru";

//var result = email2.Split('@');

//foreach (var i in result)

//{

// Console.WriteLine(i);

//}

//if (result[1] == "gmail.com")

//{

// Console.WriteLine("It is gmail");

//}

//else

//{

// Console.WriteLine("It is not gmail");

//}

//string text1 = "Salam";

//string text2 = "Salam";

//Console.WriteLine(text1.Equals(text2));

//Console.WriteLine(text1.CompareTo(text2));

//string site = "www.google.com";

//Console.WriteLine(site.StartsWith("www"));

//Console.WriteLine(site.EndsWith("com"));

//Console.WriteLine(site.StartsWith("abc"));

//Console.WriteLine(site.EndsWith("ru"));

//string text = "Salam Millet";

//text += " Hello";

//Console.WriteLine(text);

//text = text.Insert(5, "Jessy");

//Console.WriteLine(text);

//var domain = "www.itstep.edu.az";

//var removedString = domain.Remove(11, 4);

//Console.WriteLine(domain);

//Console.WriteLine(removedString);

//var text = "Programmer";

//var subtext = text.Substring(4, 3);

//Console.WriteLine(subtext);

//var text = "Programmer";

//var index = text.IndexOf("");

//Console.WriteLine(index);

//var text = "Programmer";

//var set = text.ToCharArray();

//foreach (var item in set)

//{

// Console.WriteLine(item);

//}

// mutable ve inmutable

// mutable

//int[] arr = { 1, 2, 3, 4, 5 };

//int[] arr2 = arr;

//arr2[0] =55;

//Console.WriteLine(arr[0]);

//Console.WriteLine(arr2[0]);

//string text = "taxi";

//string text2 = text;

//text2 += "a";

//Console.WriteLine(text);

//Console.WriteLine(text2);

//StringBuilder sb = new StringBuilder();

//object p = sb.Append("Salam");

//StringBuilder sb2 = sb;

//sb2.Append(" Bye bye");

//Console.WriteLine(sb);

//Console.WriteLine(sb2);

//string data = default;

//string data2 = String.Empty;

//if (string.IsNullOrEmpty(data))

//{

// Console.WriteLine("It is empty");

//}

//else if (string.IsNullOrWhiteSpace(data))

//{

// Console.WriteLine("It is full of white space");

//}

//else

//{

// Console.WriteLine(data);

//}

//Console.WriteLine($"Today is {Days.Sunday}");

//Console.WriteLine($"Today us {(int)Days.Sunday}");

//Days today = Days.Sunday;

//Console.WriteLine(today);

//int color\_code = int.Parse(Console.ReadLine());

//switch ((Colors)color\_code)

//{

// case Colors.Red:

// Console.BackgroundColor = ConsoleColor.Red;

// break;

// case Colors.Green:

// Console.BackgroundColor = ConsoleColor.Green;

// break;

// case Colors.Blue:

// Console.BackgroundColor = ConsoleColor.Blue;

// break;

// case Colors.Magenta:

// Console.BackgroundColor = ConsoleColor.Magenta;

// break;

// default:

// Console.WriteLine("Invalid Color Code");

// break;

//}

//int num1 = 100;

//int num2 = 200;

//Console.WriteLine("Result is " + num1 + num2);

//Console.WriteLine("Result is " + (num1 + num2));

//Console.WriteLine($"Result is {num1 + num2}");

//String a = "Salam";

////a = null;

//if (a == null)

// Console.WriteLine("I am null");

//else

// Console.WriteLine(a);

//String a = "Salam";

////a = null;

//if (string.IsNullOrEmpty(a))

// Console.WriteLine("I am null");

//else

// Console.WriteLine(a);

// nullable

//int? data = null;

//if (data is null)

//{

// Console.WriteLine("Data is null");

//}

//else

//{

// Console.WriteLine(data);

//}

//int d = 100;

//if (d is int)

//{

// Console.WriteLine("D is int");

//}

//else if(d is double)

//{

// Console.WriteLine("D is double");

//}

#endregion

#region MyRegion

//int number = 10;

//Console.WriteLine(number);

//Change(ref number);

//Console.WriteLine(number);

////Add(10, 20);

//Add(10, 20,30);

//int product;

//Multiply(100, 20, out product);

//Console.WriteLine(product);

//int num = 100;

//ref int mynum = ref num;

//Console.WriteLine(num);

//Console.WriteLine(mynum);

//mynum = -100;

//Console.WriteLine(num);

//Console.WriteLine(mynum);

#endregion

while (true)

{

Console.Clear();

Console.Write("Enter number 1 : ");

int n1 = Convert.ToInt32(Console.ReadLine());

Console.Write("Enter number 2 : ");

int n2 = Convert.ToInt32(Console.ReadLine());

Console.Write("Enter operator : ");

char op = Convert.ToChar(Console.ReadLine());

switch ((Operators)op)

{

case Operators.Plus:

int sum;

Add(n1, n2, out sum);

Console.WriteLine($"{n1} + {n2} = {sum}");

break;

case Operators.Minus:

int difference;

Subtract(n1,n2, out difference);

Console.WriteLine($"{n1} - {n2} = {difference}");

break;

case Operators.Multiply:

int product;

Multiply(n1,n2, out product);

Console.WriteLine($"{n1} \* {n2} = {product}");

break;

case Operators.Divide:

int divisionresult;

if (Divide(n1,n2, out divisionresult))

{

Console.WriteLine($"{n1} / {n2} = {divisionresult}");

}

break;

default:

Console.WriteLine("Invalid operator included!");

break;

}

Console.WriteLine("\n\nPress any key to continue . . .");

Console.ReadKey();

}

}

}

}