using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace baitapCsharp

{

public class PhanSo

{

public double TuSo;

public double MauSo;

public double Tinh;

public int n;

public int SoNguyen;

public double PhanSoNhapVao,a,b;

public void Nhap()

{

do //Nhap Tu va Mau

{

Console.Write("Nhap Tu So: ");

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

Console.Write("Nhap Mau So: ");

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

} while (MauSo == 0);

//Chon Nhap vao phan so hay so nguyen

Console.Write("\nNhan 1: Nhap phan so");

Console.Write("\nNhan 2: Nhap so nguyen");

Console.Write("\nBan muon cong voi so nguyen hay phan so?");

n = int.Parse(Console.ReadLine());

//Xet dk neu nhap 1 thi nhap phan so con 2 thi nhap so nguyen

switch (n)

{

case 1:

{

Console.Write("Nhap vao Tu So: ");

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

Console.Write("\nNhap vao Mau So: ");

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

PhanSoNhapVao = a / b;

} break;

case 2:

{

Console.Write("Nhap vao so nguyen: ");

SoNguyen = int.Parse(Console.ReadLine());

} break;

default: Console.Write("Error"); break;

}

}

/\* public double RutGon()

{

double rutgon = UCLN(double TuSo,double MauSo);

if (rutgon != 0)

{

TuSo = TuSo / rutgon;

MauSo = MauSo / rutgon;

}

else

{

TuSo = TuSo;

MauSo = MauSo;

}

}\*/

public void Xuat()

{

if (n == 1)

{

double n1 = ((TuSo / MauSo) + PhanSoNhapVao);

Console.WriteLine("\nKet qua cua "+ TuSo+"/"+MauSo+ "+ "+a+"/"+b+" la:" + String.Format("{0:0.00}",n1));

}

else

{

double n2 = ((TuSo / MauSo) + SoNguyen);

Console.WriteLine("\nKet qua cua "+TuSo+"/"+MauSo +" + "+SoNguyen+" la:"+ String.Format("{0:0.00}",n2));

}

//Console.WriteLine("UCLN cua Tu va Mau la: {0}", UCLN());

//Console.WriteLine("Rut gon cua Tu va Mau la: {0}", RutGon());

}

public void UCLN()

{

TuSo = Math.Abs(TuSo);

MauSo = Math.Abs(MauSo);

while (TuSo != 0 && MauSo != 0 && TuSo != MauSo)

{

if (TuSo > MauSo)

TuSo = TuSo - MauSo;

else

MauSo = MauSo - TuSo;

}

Console.WriteLine("\nUCLN la: " +TuSo);

}

}

class Program

{

static void Main(string[] args)

{

PhanSo ps = new PhanSo();

ps.Nhap();

ps.Xuat();

ps.UCLN();

}

}

}