Задача 1 Лице на трапец

using System;

namespace TrapezoidArea

{

class Program

{

static void Main(string[] args)

{

Console.Write("Insert b1: ");

var b1 = double.Parse(Console.ReadLine());

Console.Write("Insert b2: ");

var b2 = double.Parse(Console.ReadLine());

Console.Write("Insert h: ");

var h = double.Parse(Console.ReadLine());

var area = (b1 + b2) \* h / 2;

Console.WriteLine("The area is: " + area + ".");

}

}

}

Задача 2 Периметър и лице на кръг

using System;

namespace TrapezoidArea

{

class Program

{

static void Main(string[] args)

{

var r = double.Parse(Console.ReadLine());

var Perimeter = 2 \* Math.PI \* r;

var Area = Math.PI \* r \* r;

Console.WriteLine(Math.Round(Area, 2));

Console.WriteLine(Math.Round (Perimeter, 2));

}

}

}

Задача 3 Лице на правоъгълник в равнината

using System;

namespace TrapezoidArea

{

class Program

{

static void Main(string[] args)

{

Console.Write("Insert x1: ");

var x1 = double.Parse(Console.ReadLine());

Console.Write("Insert y1: ");

var y1 = double.Parse(Console.ReadLine());

Console.Write("Insert x2: ");

var x2 = double.Parse(Console.ReadLine());

Console.Write("Insert y2: ");

var y2 = double.Parse(Console.ReadLine());

var width = Math.Max(x1, x2) - Math.Min(x1, x2);

var height = Math.Max(y1, y2) - Math.Min(y1, y2);

var area = width \* height;

Console.WriteLine("The area is: " + area);

var perimeter = height \* 2 + width \* 2;

Console.WriteLine("The perimeter is: " + perimeter);

}

}

}

Задача 4 Лице на триъгълник

using System;

namespace TrapezoidArea

{

class Program

{

static void Main(string[] args)

{

Console.Write("Insert a: ");

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

Console.Write("Insert h: ");

var h = double.Parse(Console.ReadLine());

var area = a \* h / 2;

Console.WriteLine("Triangle area = " + Math.Round(area, 2));

}

}

}

Задача 5 Междувалутен конвертор

using System;

class Currency\_Converter

{

static void Main(string[] args)

{

Console.Write("Insert balance to convert: ");

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

Console.Write("Insert currency 1: ");

var first = Console.ReadLine().ToUpper();

Console.Write("Insert currency 2: ");

var second = Console.ReadLine().ToUpper();

if (first == "USD")

{

if (second == "BGN")

{

Console.WriteLine("{0}", Math.Round(num \* 1.7955, 2) + " BGN");

}

else if (second == "EUR")

{

Console.WriteLine("{0}", Math.Round(num \* 0.91799, 2) + " EUR");

}

else if (second == "GBP")

{

Console.WriteLine("{0}", Math.Round(num \* 1.34138, 2) + " GBP");

}

}

if (first == "BGN")

{

if (second == "USD")

{

Console.WriteLine(Math.Round(num / 1.70940, 2) + " USD");

}

else if (second == "EUR")

{

Console.WriteLine(Math.Round(num / 1.95503, 2) + " EUR");

}

else if (second == "GBP")

{

Console.WriteLine(Math.Round(num / 2.29357, 2) + " GBP");

}

}

if (first == "EUR")

{

if (second == "BGN")

{

Console.WriteLine(Math.Round(num \* 0.51098, 2) + " BGN");

}

else if (second == "USD")

{

Console.WriteLine(Math.Round(num \* 0.87336, 2) + " USD");

}

else if (second == "GBP")

{

Console.WriteLine(Math.Round(num \* 0.77165, 2) + " GBP");

}

}

if (first == "GBP")

{

if (second == "BGN")

{

Console.WriteLine(Math.Round(num \* 0.43620, 2) + " BGN");

}

else if (second == "USD")

{

Console.WriteLine(Math.Round(num \* 0.74543, 2) + " USD");

}

else if (second == "EUR")

{

Console.WriteLine(Math.Round(num \* 0.85287, 2) + " EUR");

}

}

}

}

Задача 6 1000 дни на Земята