윈도우프로그래밍 #4

온라인 C# : https://docs.microsoft.com/ko-kr/dotnet/csharp/

1. namespace, class, method

using System;

namespace HelloWorldCsharp

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine("hello CSharp");

}

}

}

1. 형변환

using System;

namespace HelloWorldCsharp

{

class Program

{

static void Main(string[] args)

{

int randNum = 65;

Console.WriteLine(Convert.ToString(randNum)); // 65

Console.WriteLine(Convert.ToBoolean(randNum)); // True

Console.WriteLine(Convert.ToChar(randNum)); // A

}

}

}

1. 표준 입출력

using System;

namespace HelloWorldCsharp

{

class Program

{

static void Main(string[] args)

{

Console.Write("Enter your name: ");

string name = Console.ReadLine();

Console.Write("Enter your age: ");

string age = Console.ReadLine();

Console.WriteLine("your name is " + name);

Console.WriteLine("your age is " + Convert.ToInt32(age));

}

}

}

1. 묵시적 형변환, var 자료형

using System;

namespace HelloWorldCsharp

{

class Program

{

static void Main(string[] args)

{

string name = "Josh";

var fullName = name + " King";

Console.WriteLine(fullName);

Console.WriteLine(fullName.GetType());

var intNum = 100;

Console.WriteLine(intNum.GetType());

for(var i = 1; i <= 10; i++)

{

Console.WriteLine(i);

}

string[] arr = { "Alpha", "Beta", "Gamma" };

foreach(var i in arr)

{

Console.WriteLine(i);

}

}

}

}

5. 배열

using System;

using System.Linq; // Linq

namespace HelloWorldCsharp

{

class Program

{

static void Main(string[] args)

{

int[] nums;

nums = new int[100];

for (var i = 0; i < 100; i++) nums[i] = 100 - i;

Array.Sort(nums);

Console.WriteLine(Array.BinarySearch(nums, 55));

Console.WriteLine(Array.BinarySearch(nums, 111));

Console.WriteLine(nums.Average());

Console.WriteLine(nums.Sum());

}

}

}

using System;

namespace HelloWorldCsharp

{

class Program

{

static void Main(string[] args)

{

string[] sArr = new string[1] { "example" };

Console.WriteLine(sArr[0]); // example

change(sArr);

Console.WriteLine(sArr[0]); // Example

}

static void change(string[] sArr)

{

sArr[0] = "Example";

}

}

}

6. String

using System;

using static System.Console;

namespace StringSearch

{

class MainApp

{

static void Main(string[] args)

{

string greeting = "Good Morning";

WriteLine(greeting);

WriteLine();

// IndexOf()

WriteLine("Index 'Good' : {0}",greeting.IndexOf("Good")); // 0

WriteLine("Index 'o' : {0}", greeting.IndexOf("o")); // 1

var a = greeting.IndexOf("g");

WriteLine(a.GetType()); // Systme.Int32

WriteLine("LastIndexOf 'Good' : {0}", greeting.LastIndexOf("Good")); // 0

WriteLine("LastIndexOf 'o' : {0}", greeting.LastIndexOf("o")); // 6

WriteLine("StartsWith 'Good' : {0}", greeting.StartsWith("Good")); // True

WriteLine("StartsWith 'Morning' : {0}", greeting.StartsWith("Morning")); // False

WriteLine("EndsWith 'Good' : {0}", greeting.EndsWith("Good")); // False

WriteLine("EndsWith 'Morning' : {0}", greeting.EndsWith("Morning")); // True

WriteLine("Contains 'Evening' : {0}", greeting.EndsWith("Evening"));

WriteLine("Contains 'Morning' : {0}", greeting.EndsWith("Morning"));

WriteLine("Replaced 'Morning' with 'Evening' : {0}", greeting.Replace("Morning","Evening"));

}

}

}

using System;

using static System.Console;

namespace StringModify

{

class Program

{

static void Main(string[] args)

{

WriteLine("ToLower() : '{0}'", "ABC".ToLower()); // 'abc'

WriteLine("ToLower() : '{0}'", "abc".ToUpper()); // 'ABC'

WriteLine("Insert() : '{0}'", "Happy Friday!".Insert(5, " Sunny"));

WriteLine("Romove() : '{0}'", "I Don`t Love You.".Remove(2, 6));

WriteLine("Trim() : '{0}'", " No Spaces ".Trim()); // 'No Spaces'

WriteLine("Trim() : '{0}'", " No Spaces ".TrimStart()); // 'No Spaces '

WriteLine("Trim() : '{0}'", " No Spaces ".TrimEnd()); // ' No Spaces'

}

}

}

using System;

using static System.Console;

namespace StringSlice

{

class MainApp

{

static void Main(string[] args)

{

string greeting = "Good morning.";

WriteLine(greeting.Substring(0, 5)); // "Good"

WriteLine(greeting.Substring(5)); // "morning"

WriteLine();

string[] arr = greeting.Split(

new string[] { " " },StringSplitOptions.None);

WriteLine("Word Count : {0}", arr.Length); // Word Count : 2

foreach (string elemnet in arr)

WriteLine("{0}", elemnet); // Good

} } }