

(T11)比較 ConvertToString 、 ToString 、 OverrideToString

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(T11)比較 ConvertToString 、 ToString 、 OverrideToString

0. Summary

1. New Project

1.1. Create New Project

2. Program.cs

0. Summary

Convert.ToString(variable) return string.Empty when variable==null;
variable.ToString throws a NULL Reference exception when variable==null;

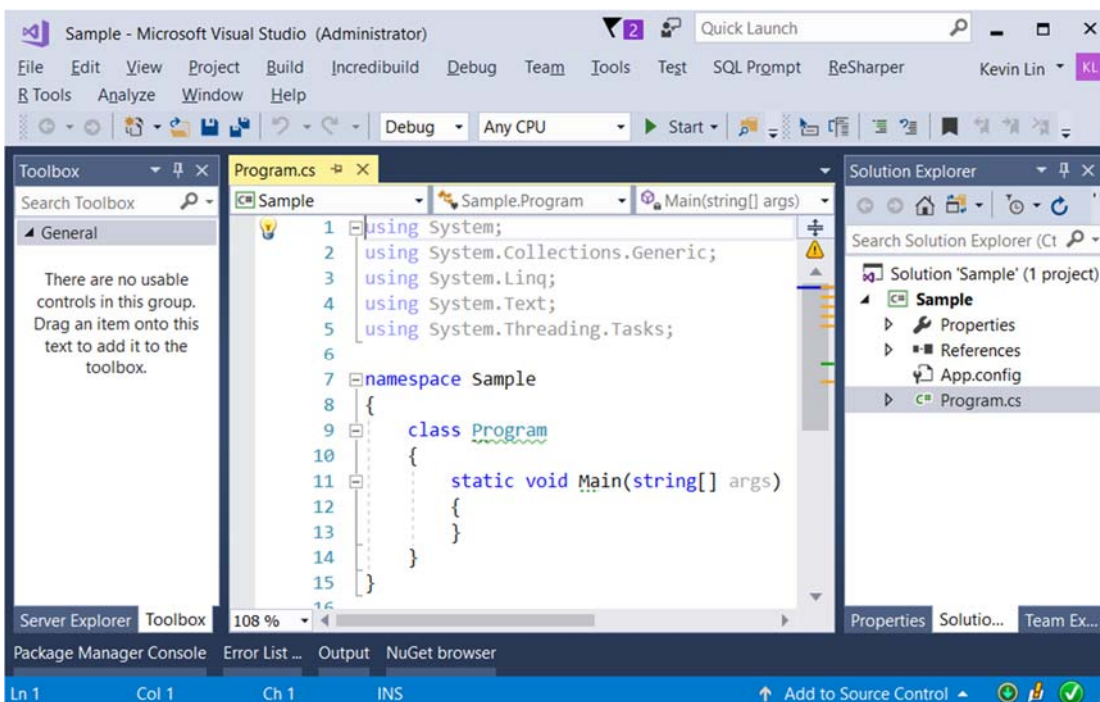
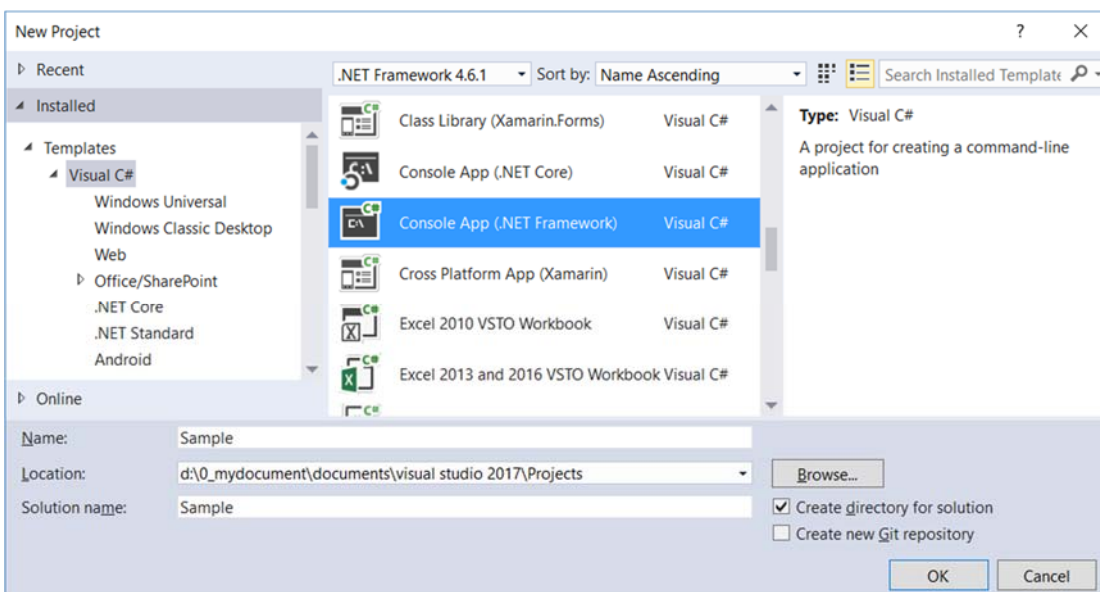
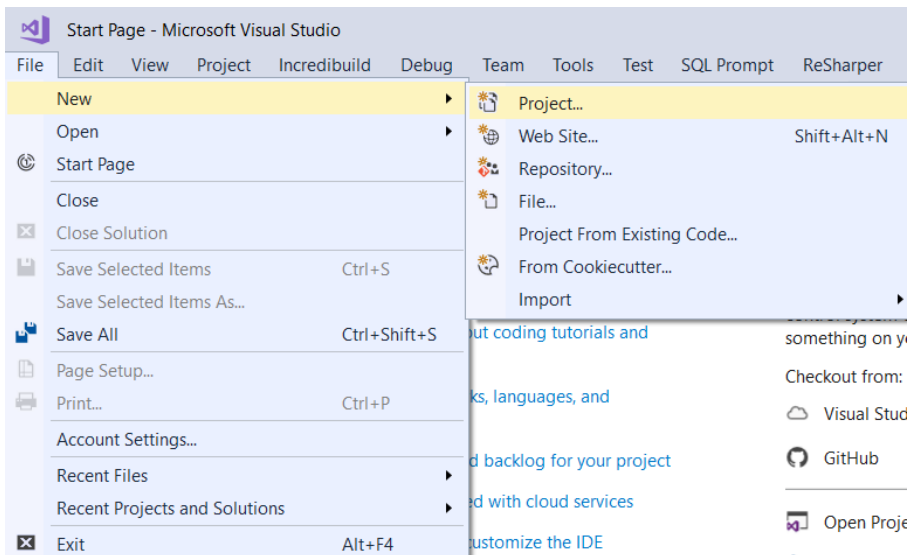
1. New Project

1.1. Create New Project

File --> New --> Project... -->

Visual C# --> **Console App (.Net Framework)** -->

Name: **Sample**



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2. Program.cs

```
using System;
using OnLineGame;
namespace Sample
{
    class Program
    {
        static void Main(string[] args)
        {
            // 1. -----
            int i1 = 1;
            Console.WriteLine(i1.ToString());
            //1
            // 2. -----
            // reason to override ToString()
            GamerA gA1 = new GamerA();
            gA1.FirstName = "F01";
            gA1.LastName = "L01";
            Console.WriteLine(gA1.ToString());
            // OnLineGame.GamerA
            // 3. -----
            Gamer g1 = new Gamer();
            g1.FirstName = "F01";
            g1.LastName = "L01";
            Console.WriteLine(g1.ToString());
            //F01 L02
            g1 = null;
            try
            {
                Console.WriteLine(g1.ToString());
            }
            catch (Exception ex)
            {
                Console.WriteLine("Exception : {0} \nMessage : {1} \nStackTrace : {2} \n", ex.GetType().Name,
ex.Message, ex.StackTrace);
            }
            //Exception: NullReferenceException
            //Message : Object reference not set to an instance of an object.
            //StackTrace : at Sample.Program.Main(String[] args) in d:\0_mydocument\documents\visual
studio 2017\Projects\Sample\Sample\Program.cs:line 36
            // 4. -----
            //Convert.ToString(variable) return string.Empty when variable== null;
            //variable.ToString throws a NULL Reference exception when variable== null;
            Gamer g2 = new Gamer();
            g2.FirstName = "F02";
            g2.LastName = "L02";
            Console.WriteLine(Convert.ToString(g2));
            //F02 L02
            g2 = null;
            Console.WriteLine(Convert.ToString(g2) == string.Empty ?
```

```

        "NULL" :
            Convert.ToString(g2));
    //NULL
    Console.ReadLine();
}
}
}

namespace OnLineGame
{
    public class GamerA
    {
        public string FirstName { get; set; }
        public string LastName { get; set; }
    }
    public class Gamer
    {
        public string FirstName { get; set; }
        public string LastName { get; set; }
        public override string ToString()
        {
            return $"{FirstName} {LastName}";
        }
    }
}
/*
Convert.ToString(variable) return string.Empty when variable==null;
variable.ToString throws a NULL Reference exception when variable==null;
*/

```

```

1
OnLineGame.GamerA
F01 L01
Exception : NullReferenceException
Message : Object reference not set to an instance of an object.
StackTrace :    at Sample.Program.Main(String[] args) in D:\Small
Education\01_2017_CSharp_KL\T011_Convert.ToStringVSToString_Ove
rrideToString\Sample\Sample\Program.cs:line 32

F02 L02
NULL

```