

(T31)討論 ExtendMethod(擴充方法)

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0. Summary

1. New Project

1.1. Create New Project : Sample

2. Sample : Program.cs

0. Summary

extend method is a static method in a static class,
and the first parameter must use "this" keyword
to represent the object instance which invoke this extend method.

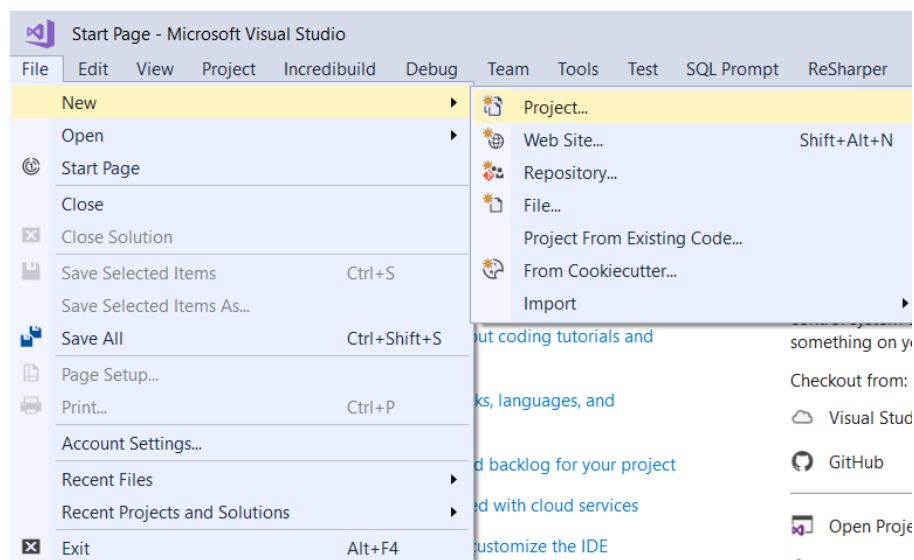
1. New Project

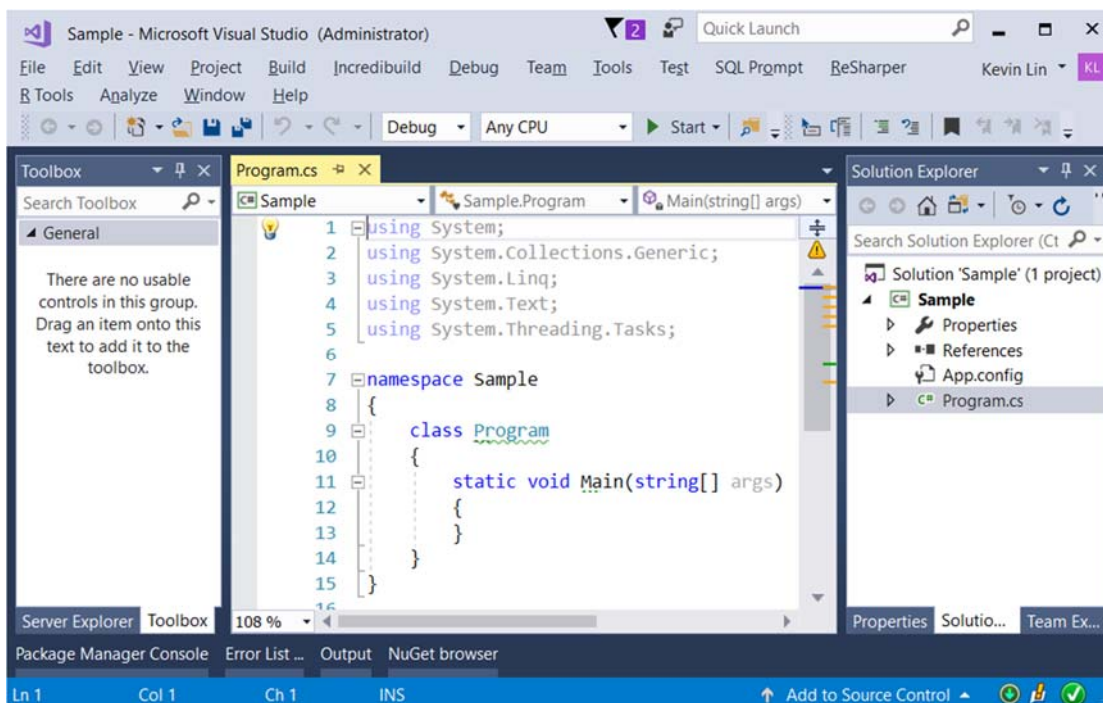
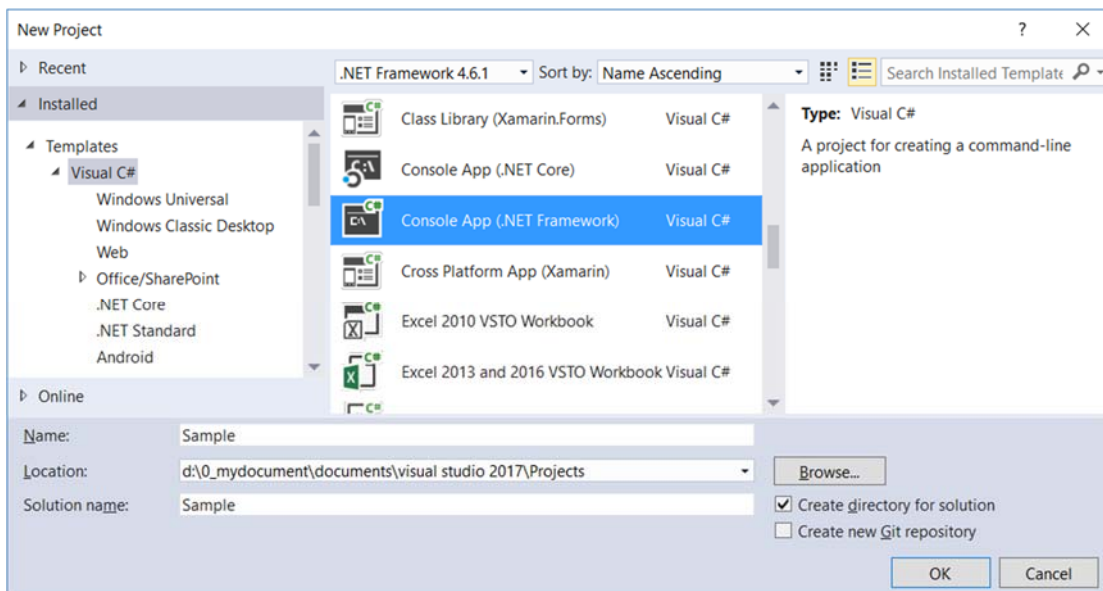
1.1. Create New Project : Sample

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

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

Name: **Sample**





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2. Sample : Program.cs

```
using System;
using OnlineGame;
namespace Sample
{
    class Program
    {
        static void Main(string[] args)
        {
            string str = @"abcdef";
            Console.WriteLine($"StringHelper.ConverToUpper1(str) : {StringHelper.ConverToUpper1(str)}");
            Console.WriteLine($"str.ConverToUpper2() : {str.ConverToUpper2()}");
        }
    }
}
```

```

        Console.WriteLine($"str.ToUpper2(\"123\", \"a1b2c3\") : {str.ToUpper2(\"123\", \"a1b2c3
    \"}}");
    Console.ReadLine();
}
}
}
namespace OnlineGame
{
    public class StringHelper
    {
        public static string ConverToUpper1(string intStr)
        {
            return intStr.ToUpper();
        }
    }
    public static class StringHelper2
    {
        public static string ConverToUpper2(this string intStr)
        {
            return intStr.ToUpper();
        }
        public static string ConverToUpper2(this string intStr, string intStr1, string intStr2)
        {
            return intStr.ToUpper() + intStr1 + intStr2;
        }
    }
}
/*
Extend method is a static method in a static class,
and the first parameter must use "this" keyword
to represent the object instance which invoke this extend method.
*/

```

```

StringHelper.ConverToUpper1(str) : ABCDEF
str.ConverToUpper2() : ABCDEF
str.ConverToUpper2("123","a1b2c3") : ABCDEF123a1b2c3

```