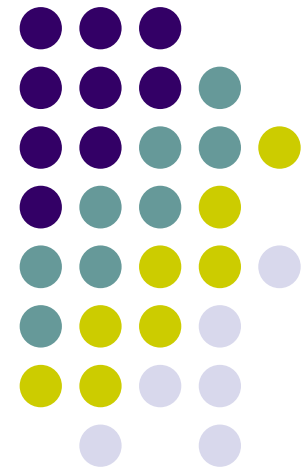
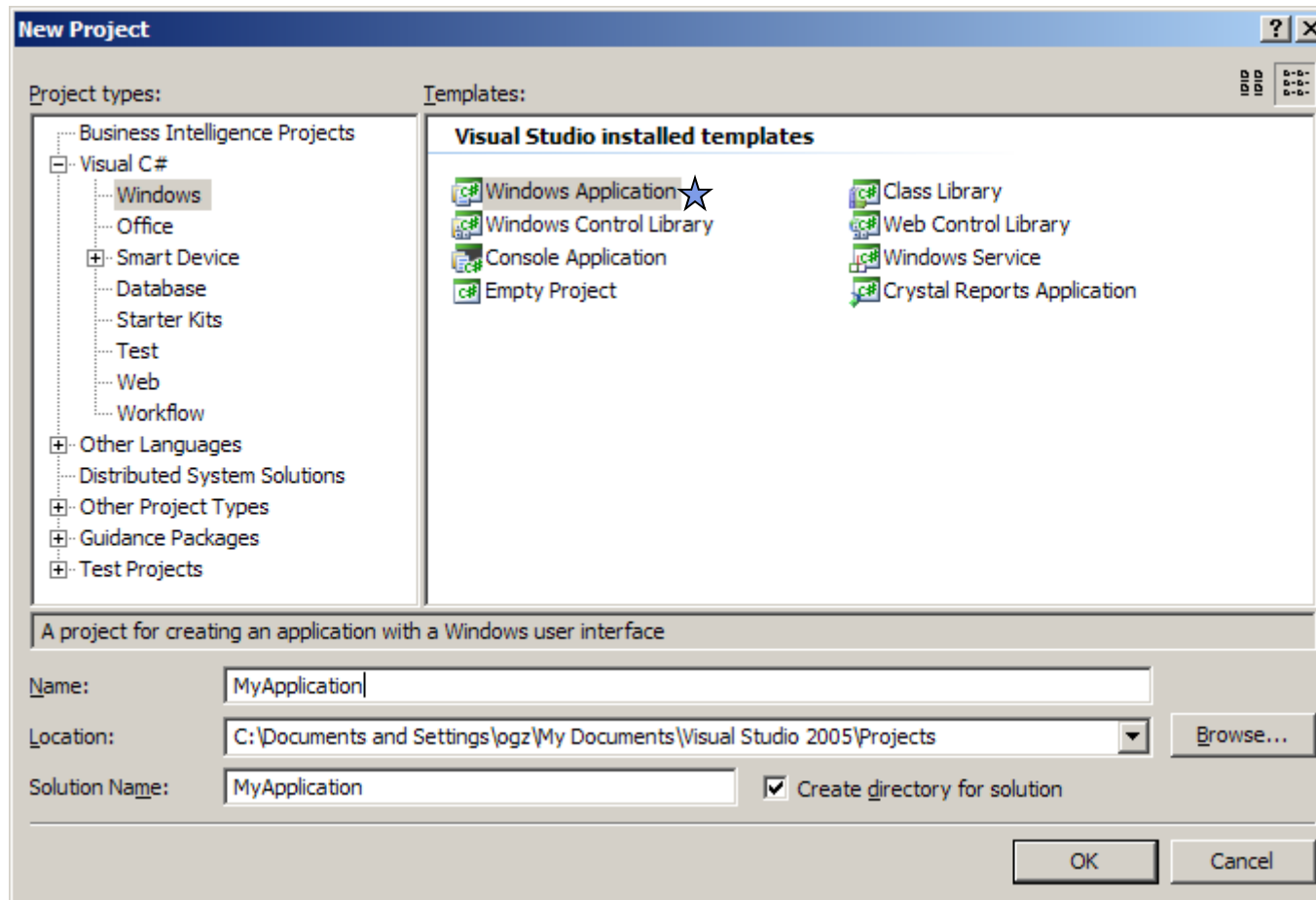


# Windows Forms Introduction

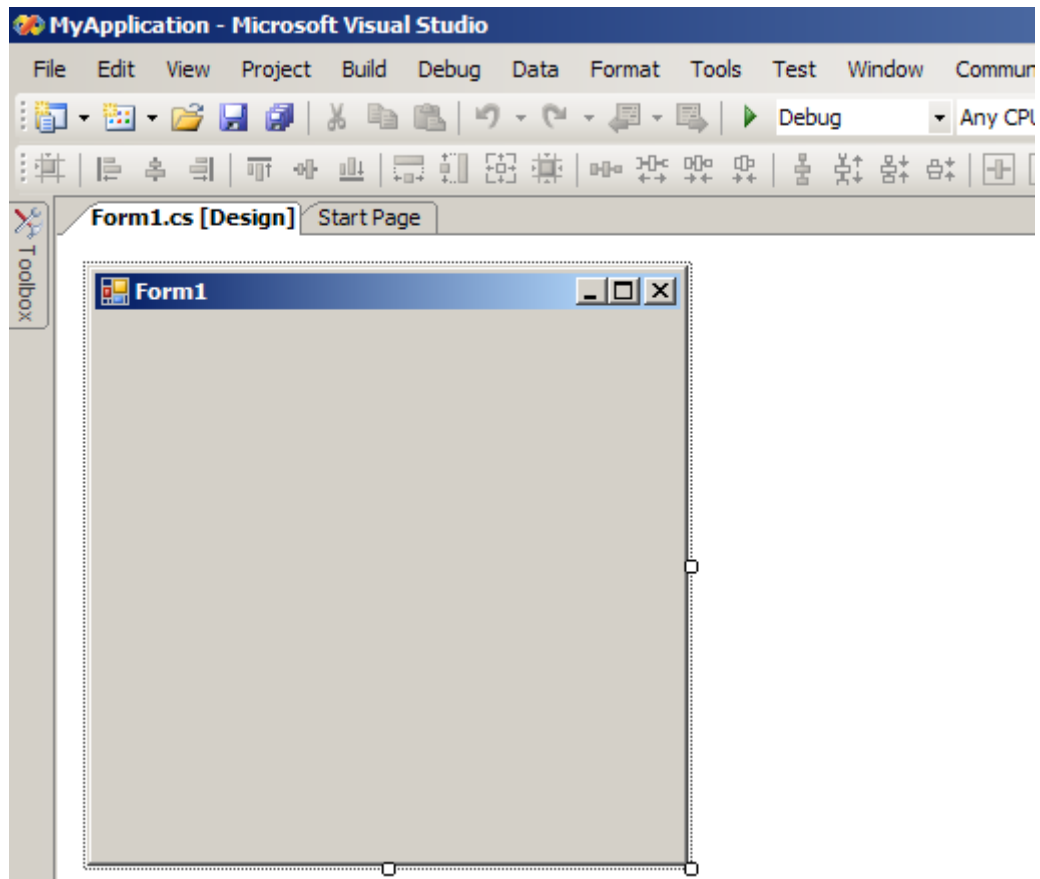
---



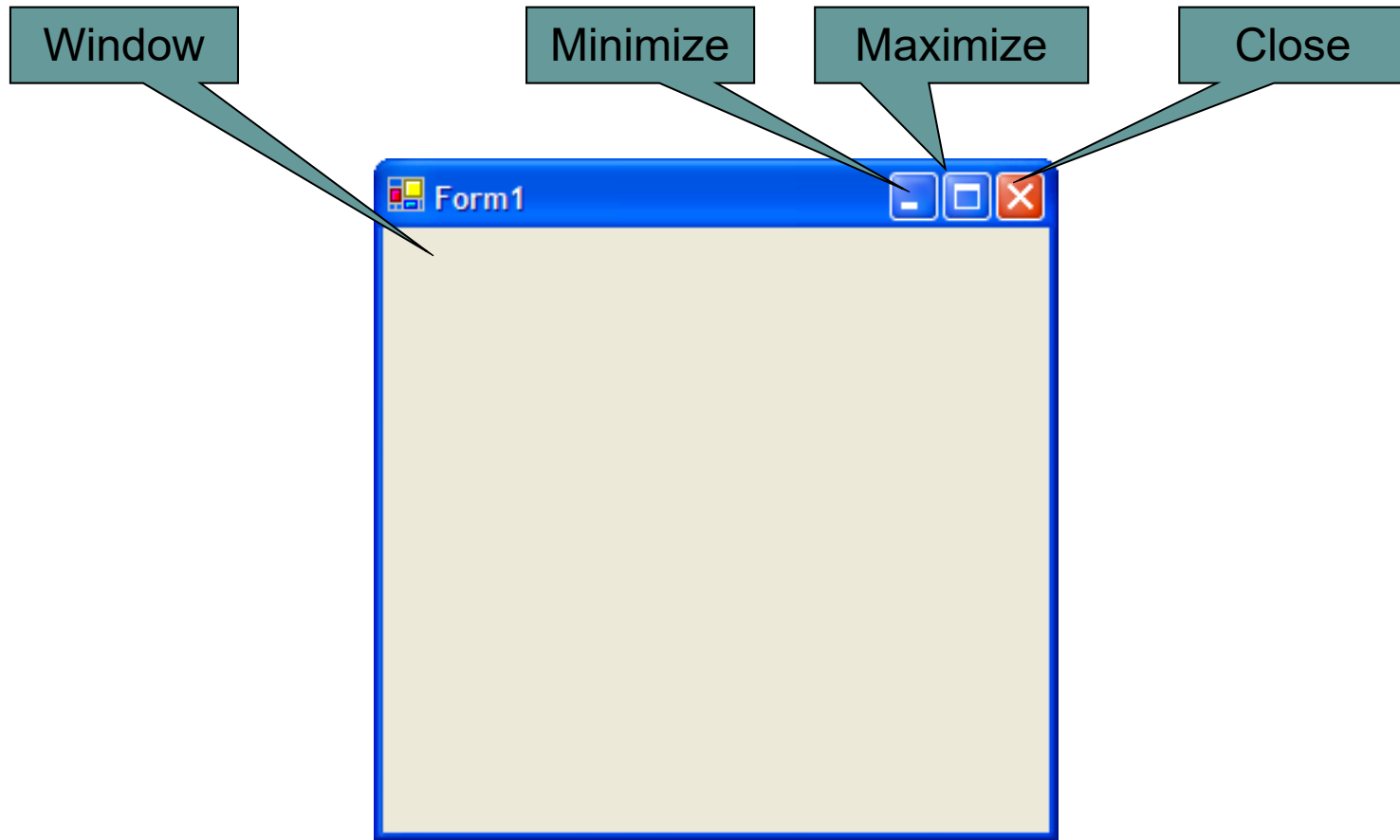
# Creating a Project



# Starting Point

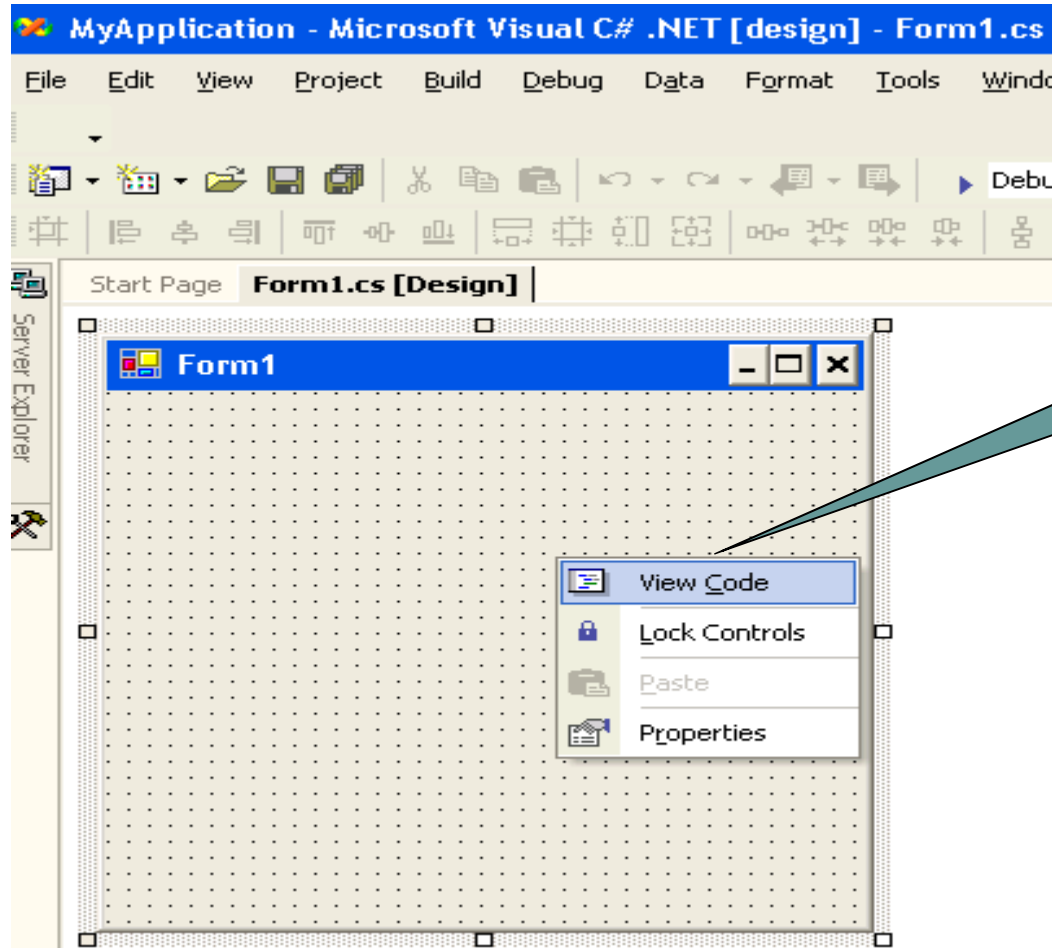


# Form



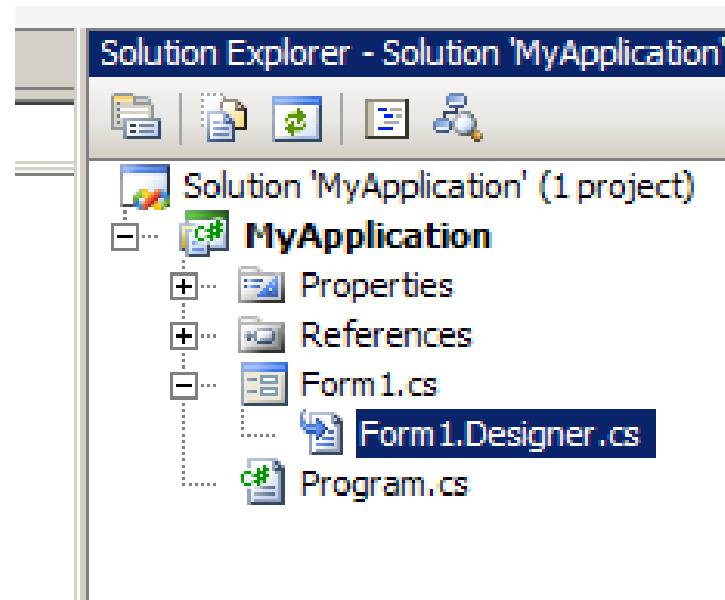
System.Windows.Forms.Form

# Opening Code View



Right mouse  
click

# Where are my codes?



# In the background (Form1.cs)



```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Text;
using System.Windows.Forms;

namespace MyApplication
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }
    }
}
```

Base class

- What is Partial?

# In the background (Form1.Designer.cs)



Comments

```
namespace MyApplication
{
    partial class Form1
    {
        /// <summary>
        /// Required designer variable.
        /// </summary>
        private System.ComponentModel.IContainer components = null;

        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        /// <param name="disposing">true if managed resources should be dis
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }

        Windows Form Designer generated code
    }
}
```

Codes that  
composes  
form

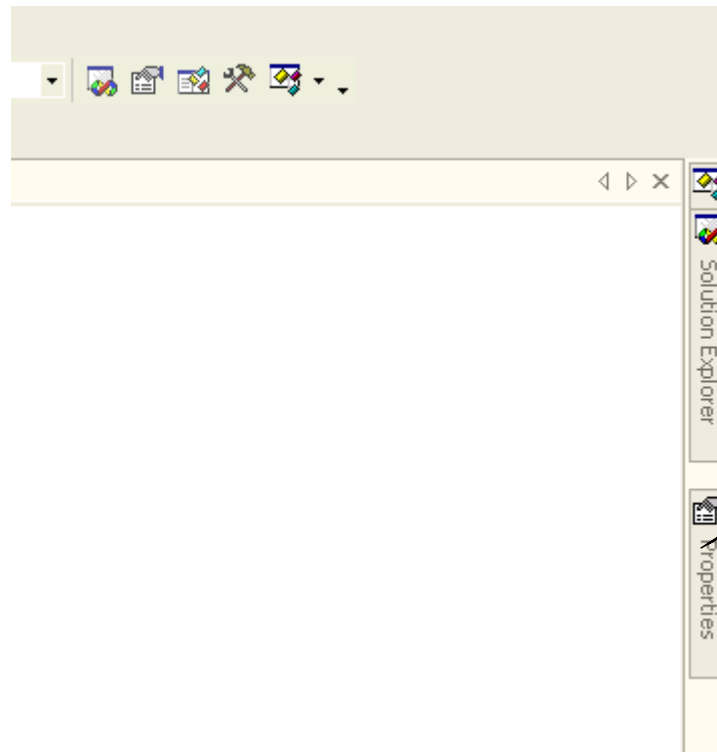


# TODO's while stating a Project



- Rename file name of Form1.
- Change properties of Form1.

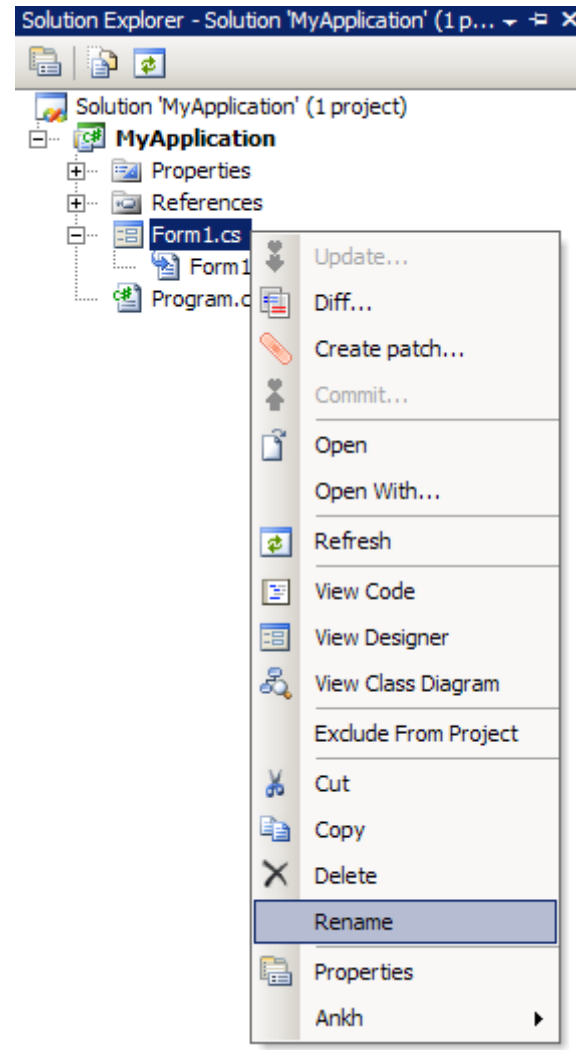
# Properties Window



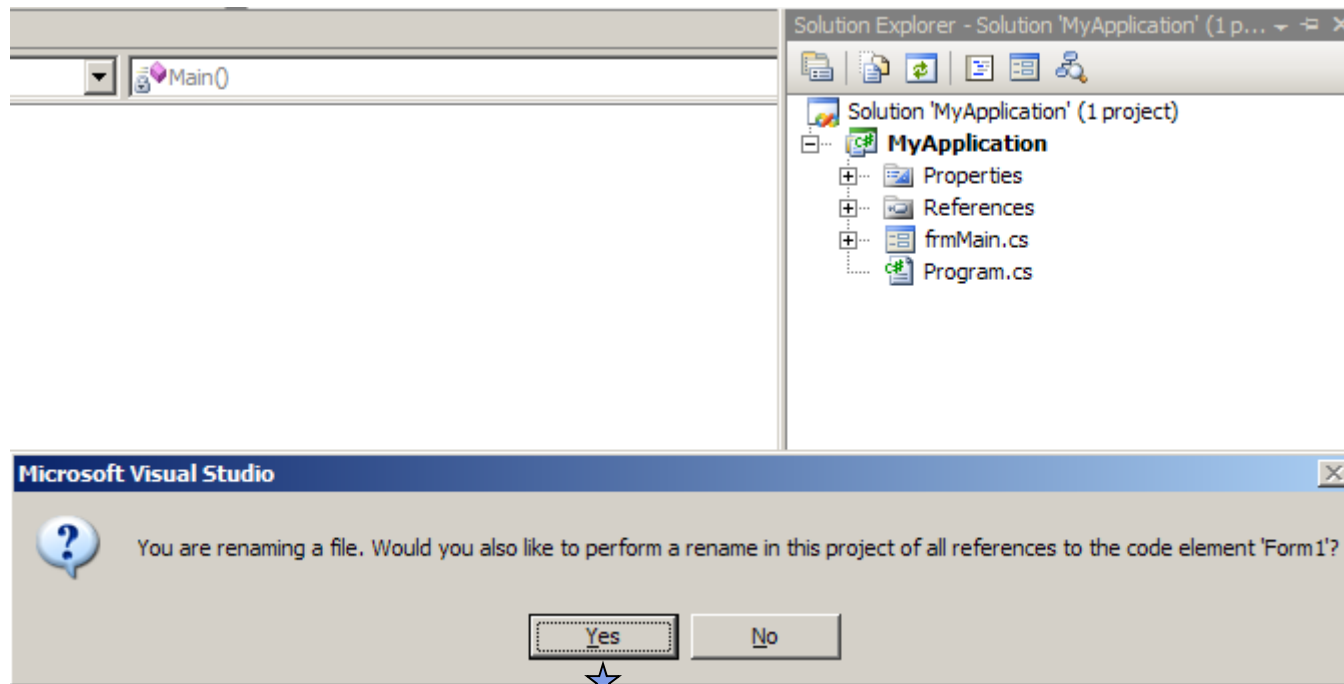
At the right of  
the screen

**Not :** If you close the **Properties Window** accidentally, you may open it again from **View** menu.

# Renaming a Form

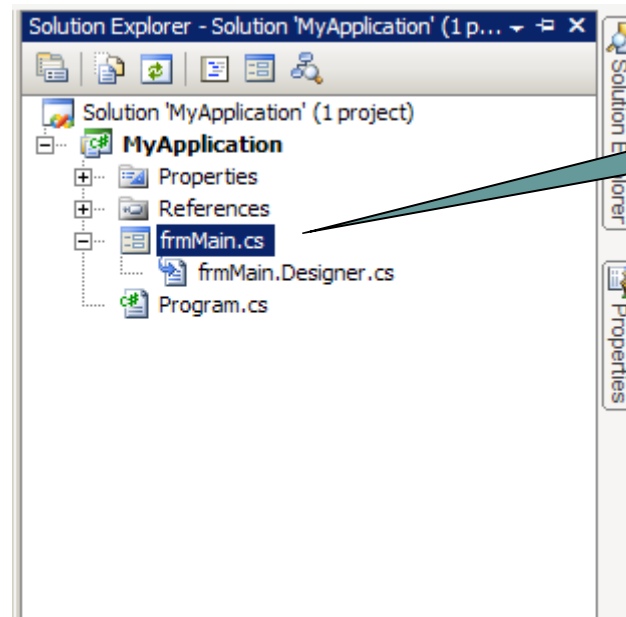


# Renaming a Form



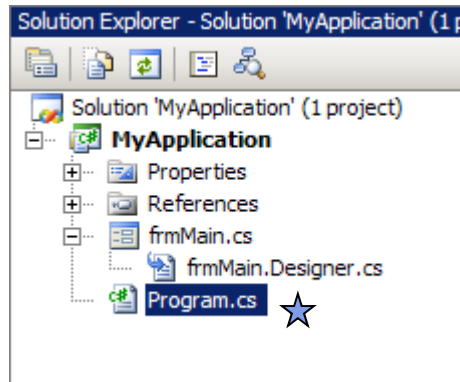
Renames all references in the project

# Renaming a Form



Final state of the form

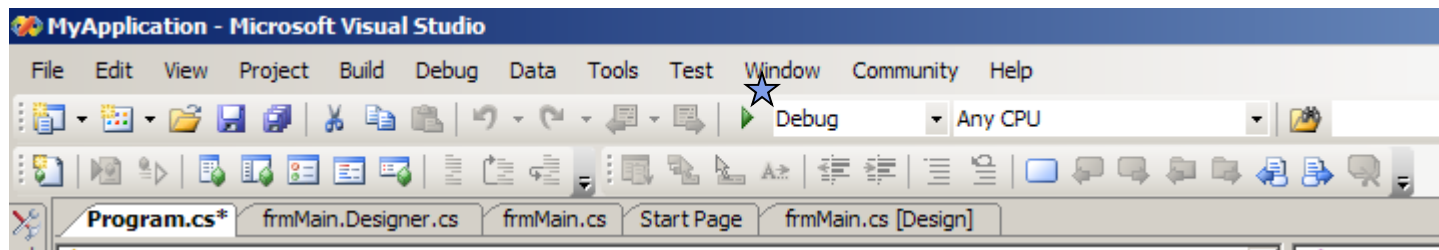
# Where is Main function?



```
using System;
using System.Collections.Generic;
using System.Windows.Forms;

namespace MyApplication
{
    static class Program
    {
        /// <summary>
        /// The main entry point for the application.
        /// </summary>
        [STAThread]
        static void Main()
        {
            Application.EnableVisualStyles();
            Application.SetCompatibleTextRenderingDefault(false);
            Application.Run(new frmMain());
        }
    }
}
```

# Running the Program



Or you may execute the program by pressing F5 key

# Form Properties



Properties window for **frmMain** (System.Windows.Forms.Form)

- Accessibility**
  - AccessibleDescription
  - AccessibleName
  - AccessibleRole: Default
- Appearance**
  - ★ BackColor: Control
  - ★ BackgroundImage: (none)
  - BackgroundImageLayout: Tile
  - Cursor: Default
  - ★ Font: Microsoft Sans Serif; 8,25pt
  - ForeColor: ControlText
  - ★ FormBorderStyle: Sizable
  - RightToLeft: No
  - RightToLeftLayout: False
  - ★ Text: **Form1**
  - UseWaitCursor: False
- Behavior**
  - AllowDrop: False
  - AutoValidate: EnablePreventFocusChange
  - ContextMenuStrip: (none)
  - DoubleBuffered: False
  - Enabled: True
  - ImeMode: NoControl
- Data**
  - (ApplicationSettings)
  - (DataBindings)
  - Tag
- Design**
  - ★ (Name): **frmMain**
  - Language: (Default)
  - Localizable: False
  - Locked: False

- Focus**
  - CausesValidation: True
- Layout**
  - AutoScaleMode: **Font**
  - AutoScroll: False
  - AutoScrollMargin: 0; 0
  - AutoScrollMinSize: 0; 0
  - AutoSize: False
  - AutoSizeMode: GrowOnly
  - Location: 0; 0
  - MaximumSize: 0; 0
  - MinimumSize: 0; 0
  - Padding: 0; 0; 0; 0
  - ★ Size: 300; 300
  - ★ StartPosition: WindowsDefaultLocation
  - ★ WindowState: Normal
- Misc**
  - ★ AcceptButton: (none)
  - ★ CancelButton: (none)
  - KeyPreview: False
- Window Style**
  - ★ ControlBox: True
  - HelpButton: False
  - ★ Icon: (Icon)
  - IsMdiContainer: False
  - MainMenuStrip: (none)
  - ★ MaximizeBox: True
  - ★ MinimizeBox: True
  - Opacity: 100%
  - ★ ShowIcon: True
  - ★ ShowInTaskbar: True
  - SizeGripStyle: Auto
  - ★ TopMost: False
  - TransparencyKey:



# Form Properties



- BackColor
- BackgroundImage
- Font
- FormBorderStyle
- Text
- Name
- GridSize
- Size
- StartPosition
- WindowState
- AcceptButton
- CancelButton
- ControlBox
- Icon
- MaximizeBox
- MinimizeBox
- ShowInTaskbar
- TopMost

# Exercise



- Change the properties of the form and run it. Examine the differences.