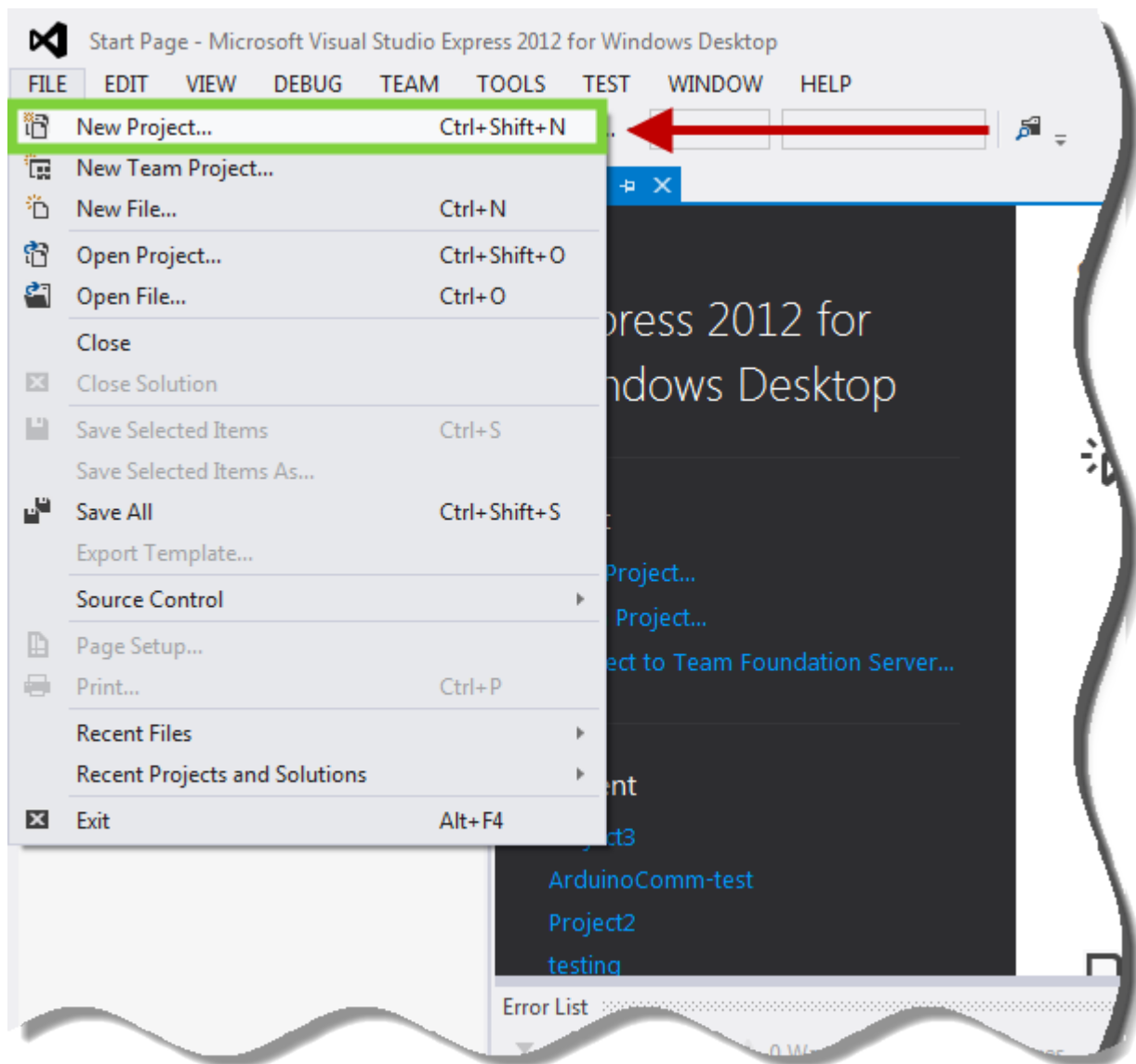


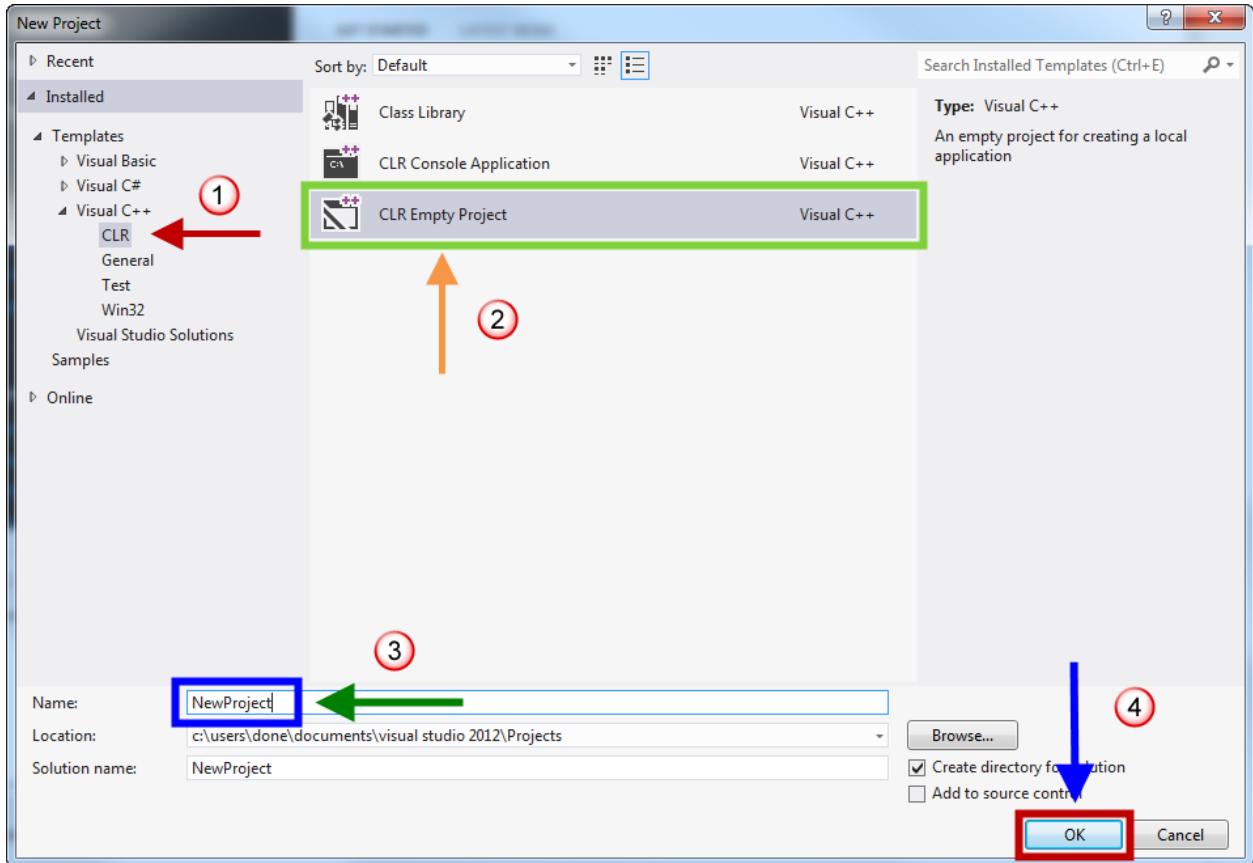
Visual C++ Express 2012: Creating a Windows Form Project

1. File > select **New Project**.

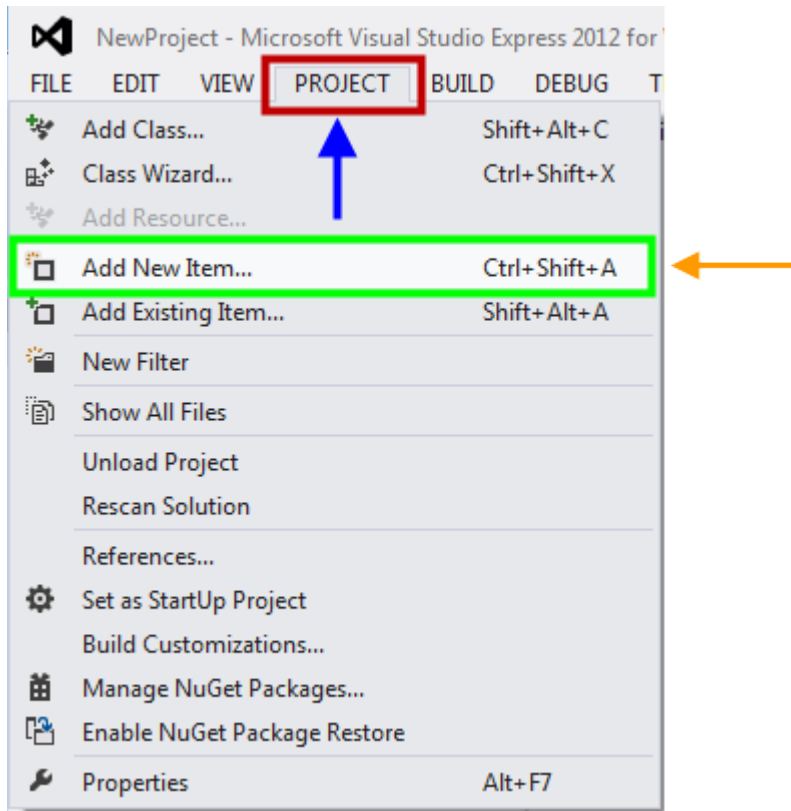


2. New Project Window > 1 (under Visual C++) CLR > 2 select **CLR Empty Project** > 3 enter **<Project_name>** > 4 click **OK**.

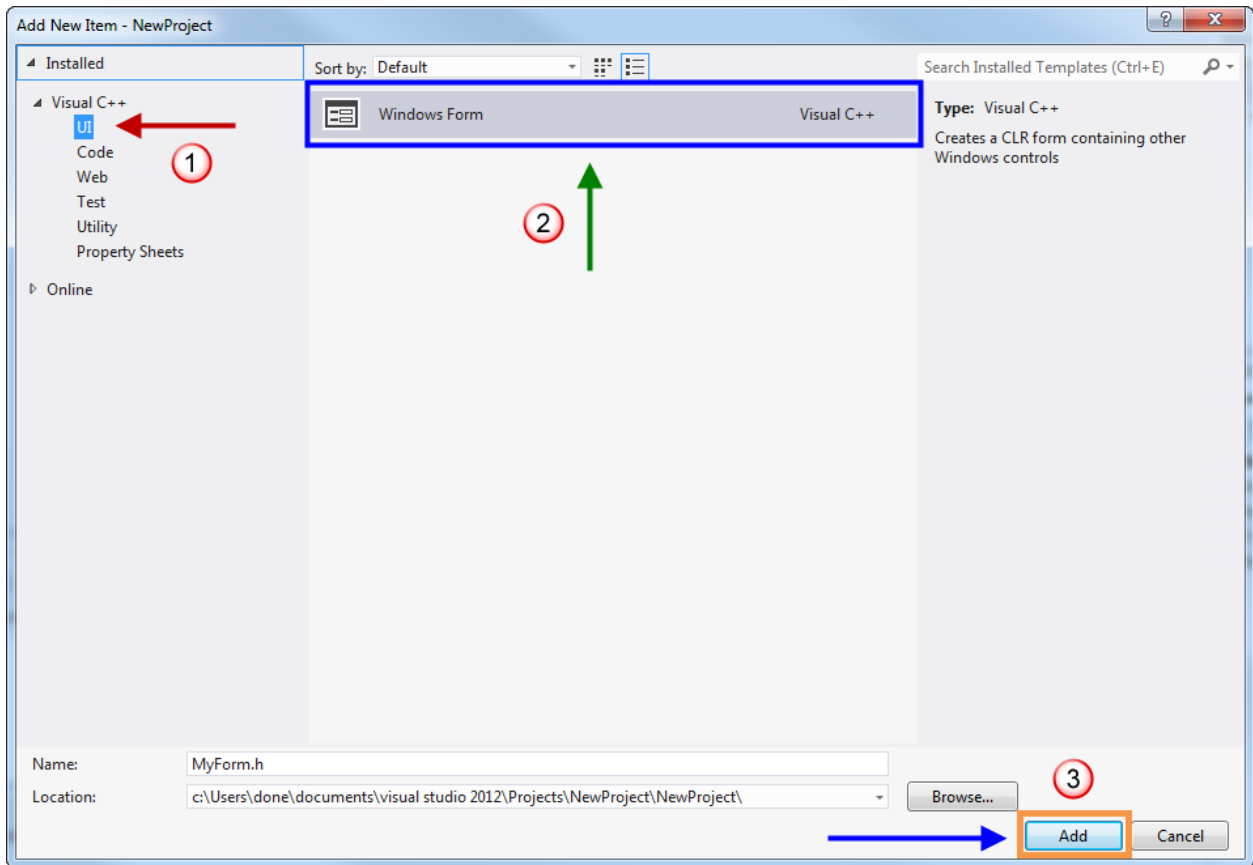
➤ **Optional:** Change the **Location** of the Project.



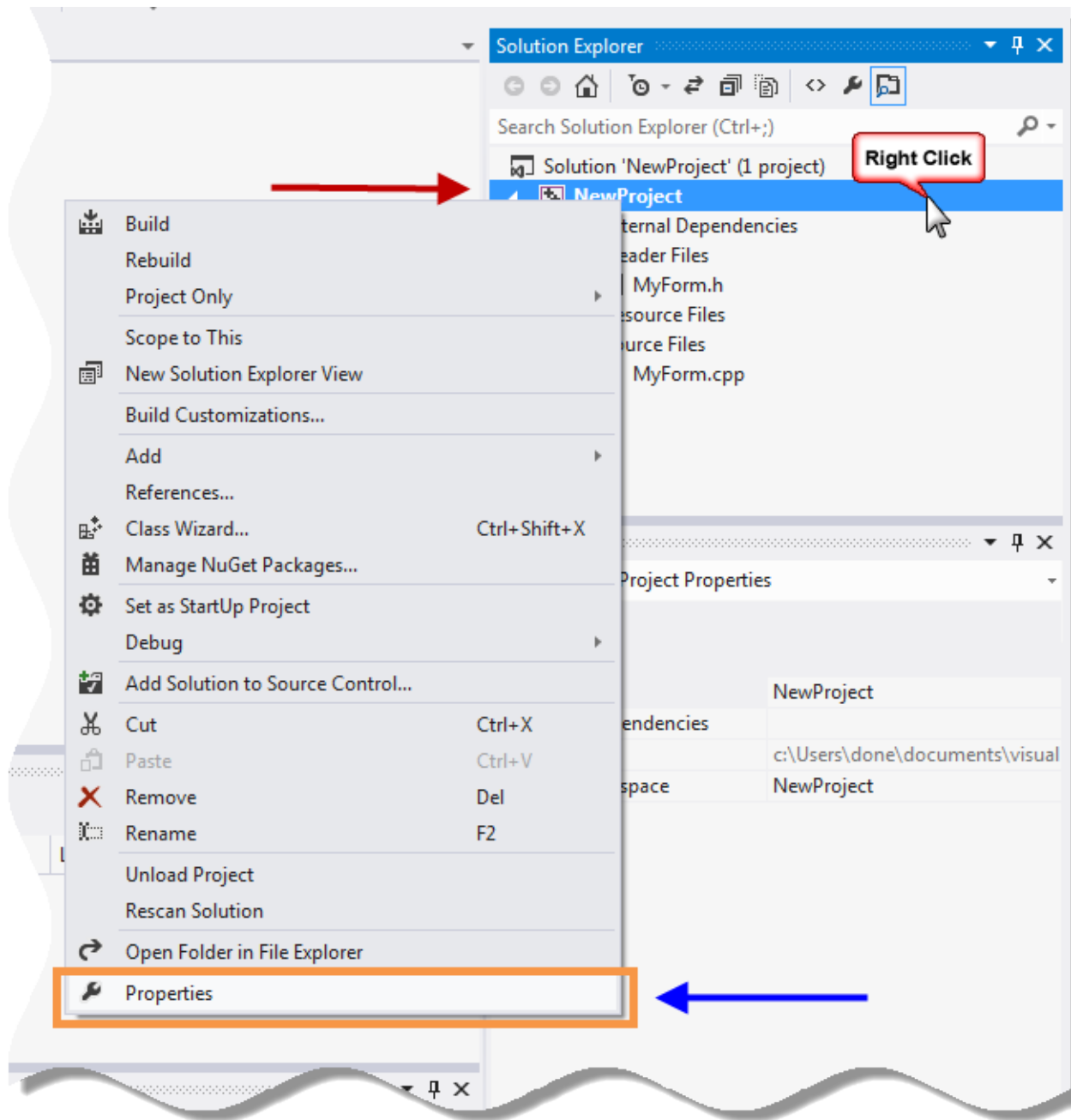
3. Project > select **Add New Item**.



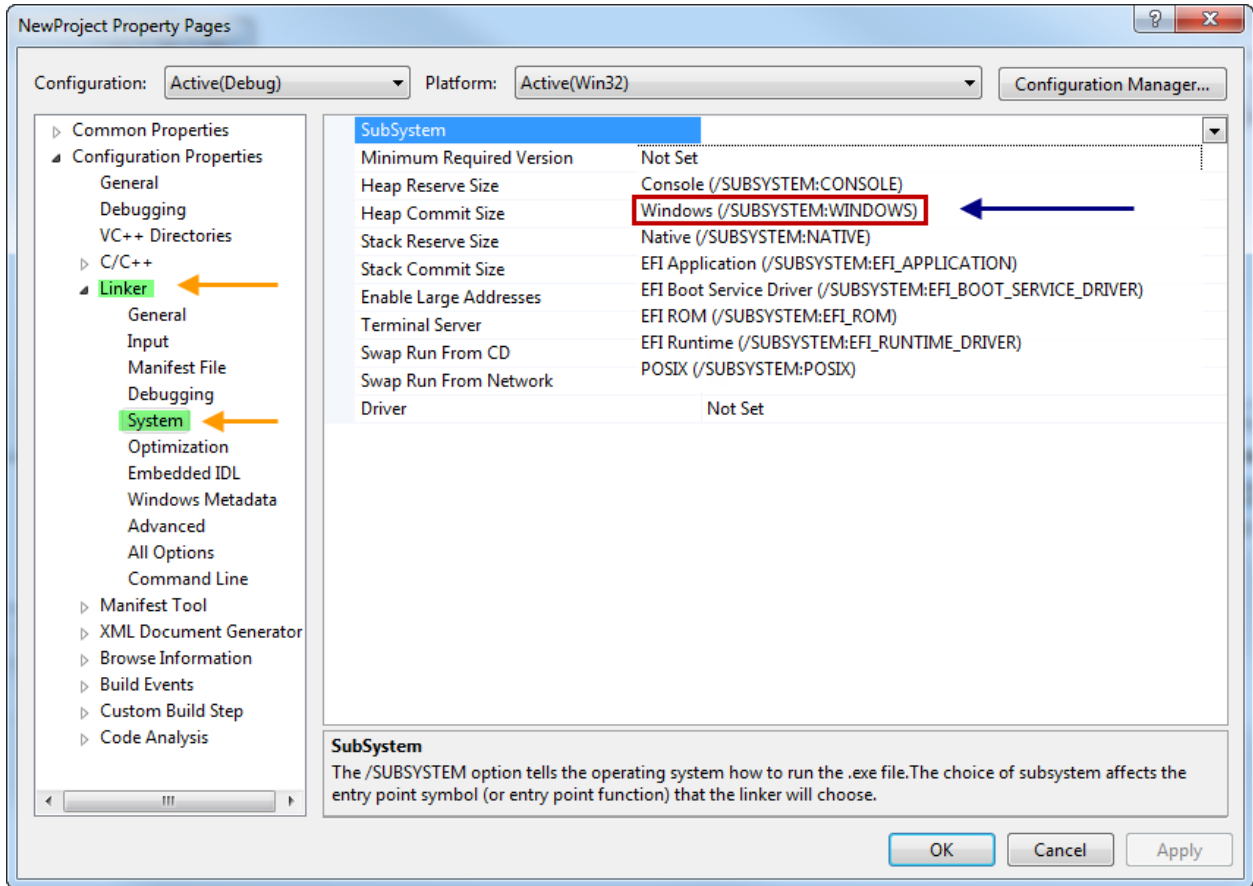
4. 1 (Under Visual C++) > UI > 2 select **Windows Form** > 3 click **OK**.



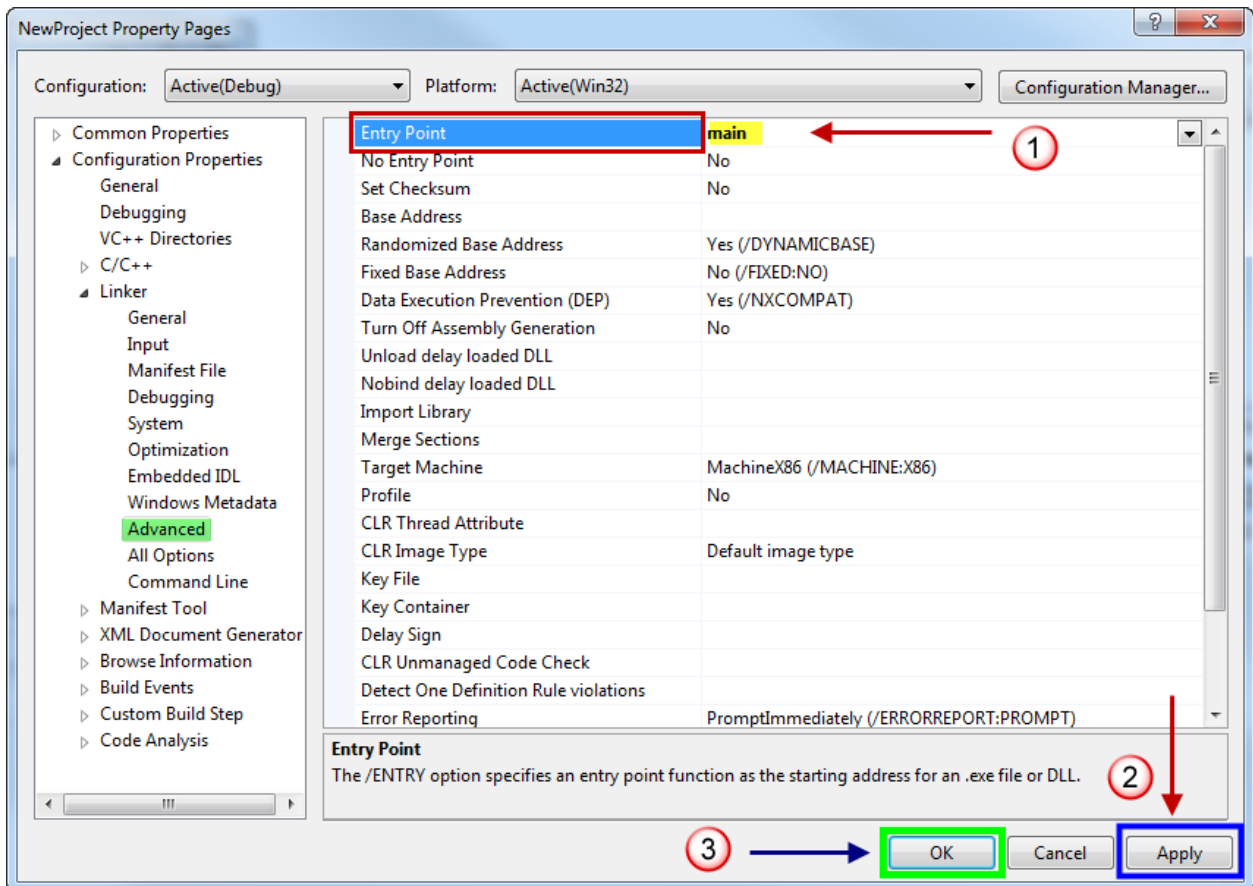
5. (Under Solution Explorer) > right-click on **<Project_name>** > select **Properties**.



6. Project Property Pages (pop-up window) > Configuration Properties > Linker > System > (right-hand panel) System SubSystem (dropdown menu) > select **Windows (/SUBSYSTEM:WINDOWS)**.



7. (Still in the Project Property Pages window) > Advanced > (right-hand panel) > Entry Point > 1 type in **main** > 2 click **Apply** > 3 click **OK**.



8. Go to <Project_name>.cpp > enter the following code:

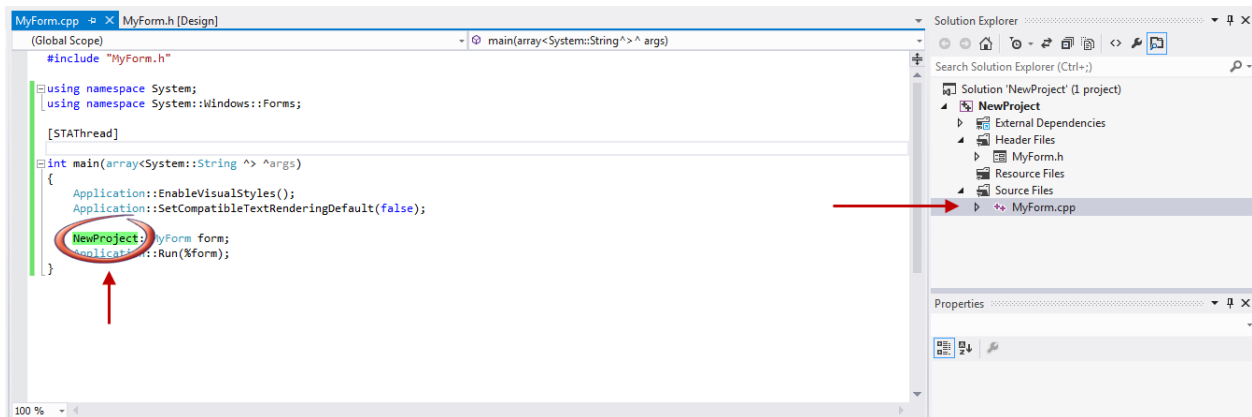
```
using namespace System;
using namespace System::Windows::Forms;

[STAThread]

int main(array<System::String ^> ^args)
{
    Application::EnableVisualStyles();
    Application::SetCompatibleTextRenderingDefault(false);

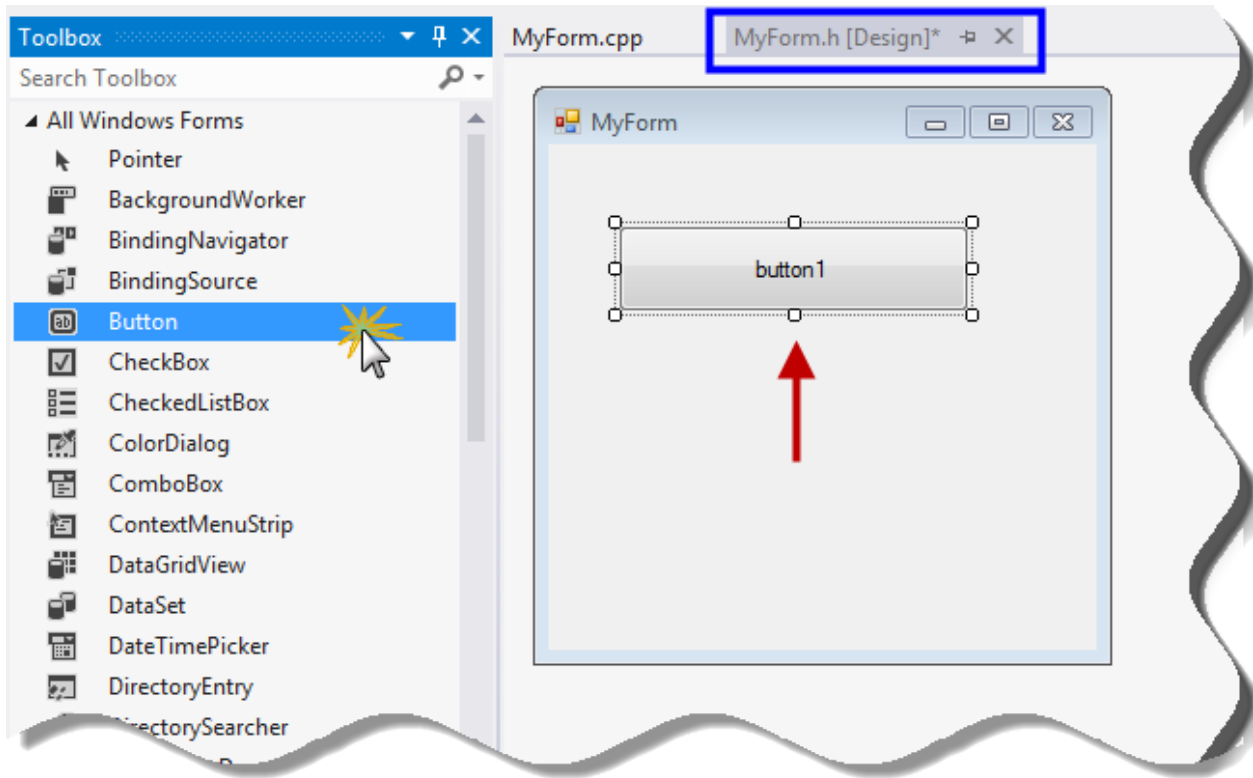
    NewProject::MyForm form;
    Application::Run(%form);
}
```

- **Note:** The highlighted green area should be your unique project's name.
- **Note:** Change MyForm as well if you also gave the code file a different name.
- **Recommended:** Run the debugger to check for errors.

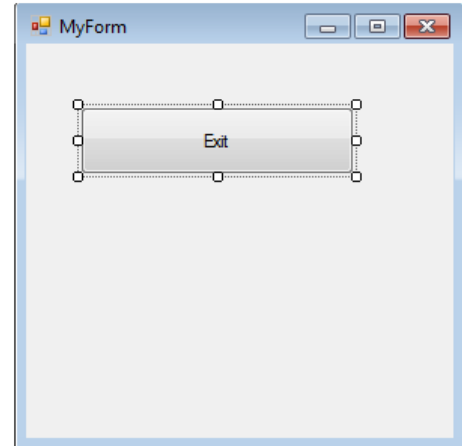
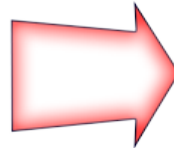
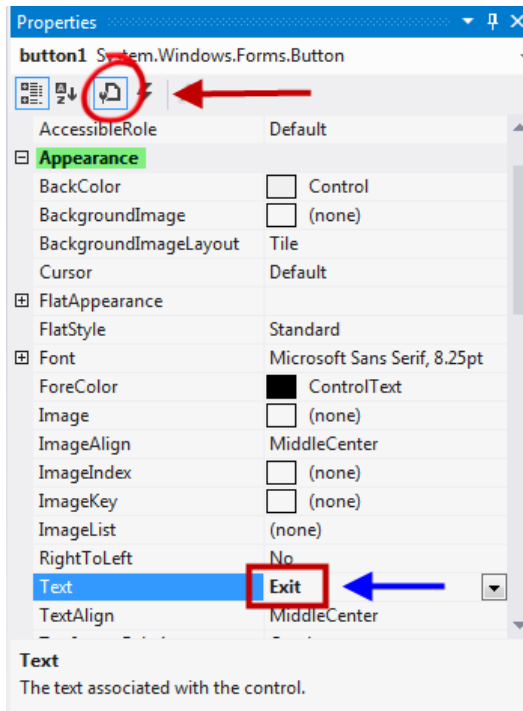


9. Got to `<Project_name>.h [Design]` > Toolbox > add **Button** to the form.

Tip: If you don't have the Toolbox panel open go to **View > Toolbox** (or Ctrl+W, X).

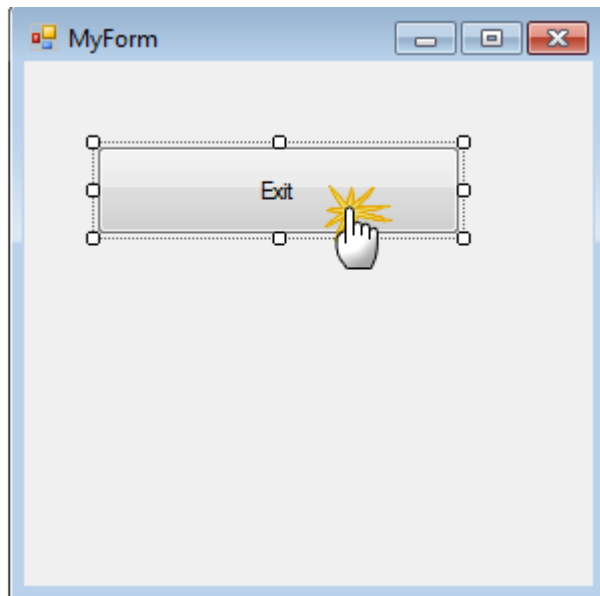


10. (Under) Properties > Appearance > Text > enter <button text>.



11. On the form > click the **button**.

(This will route to the <project_name>.h file where a user may enter the proper code.)



12. In the `<project_name>.h` file, under

```
#pragma endregion  
private: System::Void button1_Click(System::Object^ sender, System::EventArgs^ e) {
```

enter the following code:

```
Application::Exit();
```

Recommended: Run the debugger again and test.

Notes:

Credits:

YouTube video by Ong Hoe Yuan

URL: <http://youtu.be/U14ZpnAmoXg>

Arduino Serial Communication With C++

URL: <http://webhole.net/2010/05/01/arduino-visual-c-plus-plus-tutorial/>

The void main() from Yuan's code was generating an error so `int main(array<System::String ^> ^args)` was utilized from the WebHole article.

Other references:

MSDN forum post with answers:

<http://social.msdn.microsoft.com/Forums/en-US/Vsexpressvc/thread/a6d92d96-4a86-4ef7-a815-7f588a6073ea>