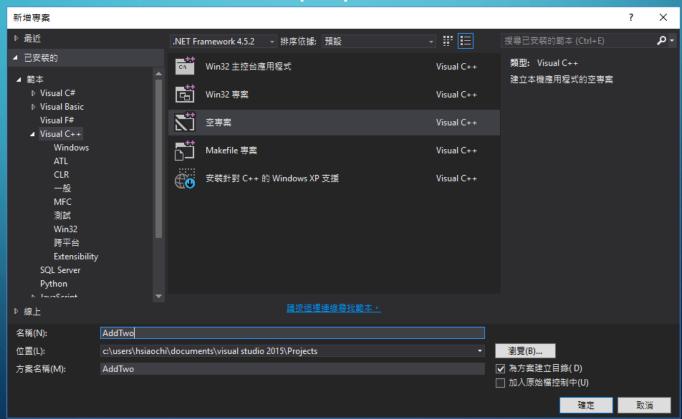
## INTRODUCTION TO ASSEMBLY LANGUAGE PROGRAMMING - SET UP PROGRAMMING PENVIRONMENT

#### WHAT WILL YOU NEED?

- Visual Studio 2015up (VS) you can download it from Microsoft website.
  - When installing Visual Studio, be sure to select Visual C++ under the *Programming Languages* category.
  - MASM is the main assembler (ASM) that will be used in this course.
- Irvine's Library: provided by Kip Irvine
  - you can download the library from http://kipirvine.com/asm/examples/
  - Install the library and you are getting close to your first .asm program

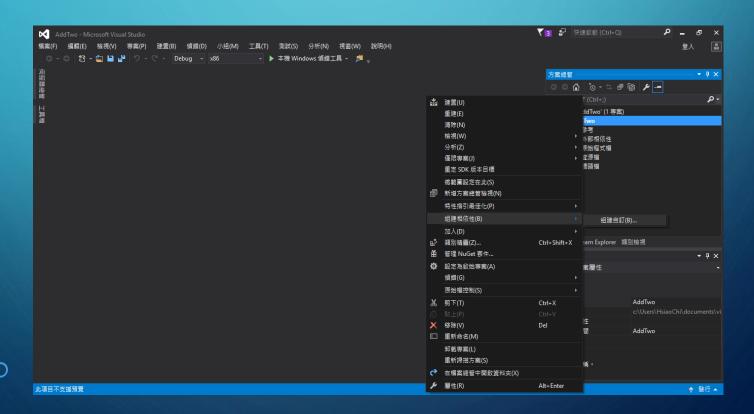
# O HOW TO CREATE AN ASSEMBLY PROGRAM?

Create a new visual C++ project.

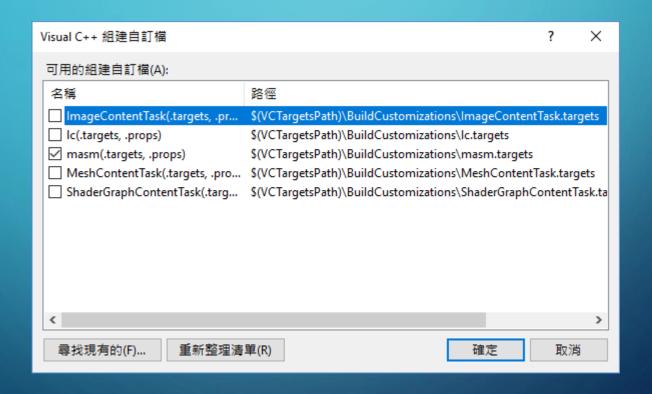


#### CHOOSE ASSEMBLER - MASM

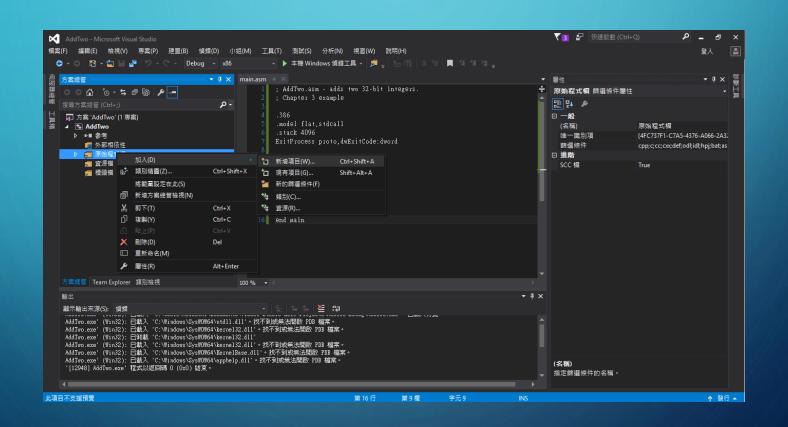
Right Click



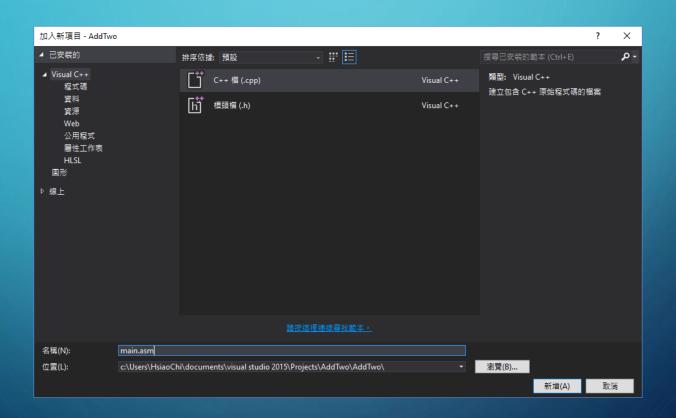
# CHOOSE ASSEMBLER – MASM (CONT'D)



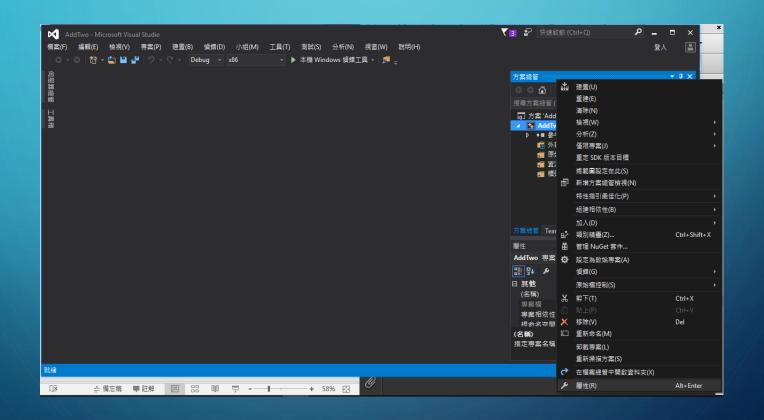
#### ADD A NEW ITEM - MAIN.ASM



# O ADD A NEW ITEM — MAIN.ASM (CONT'D)

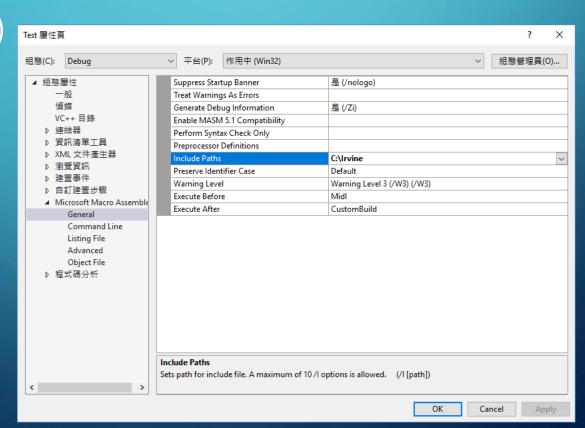


#### LINK IRVINE LIBRARY

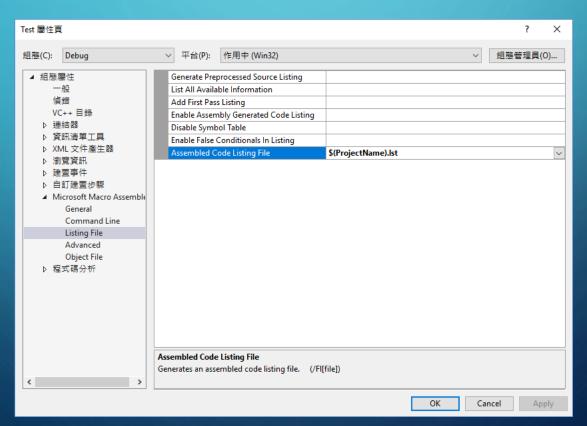


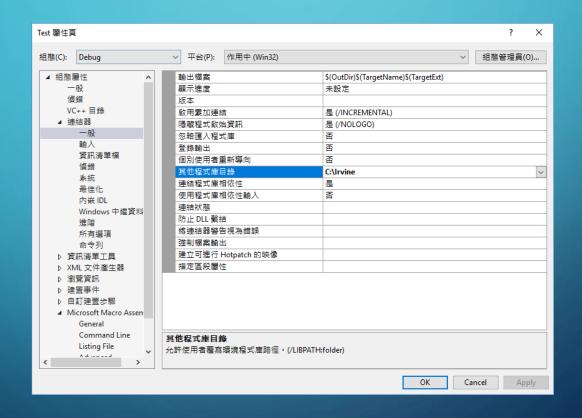
• Enter the path where Irvine's Library is installed. (Default:

C:\Irvine)

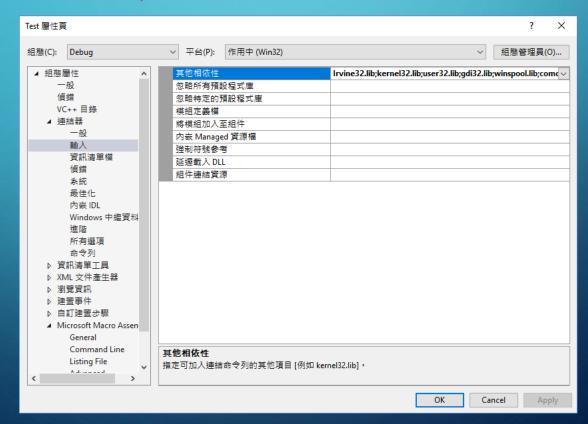


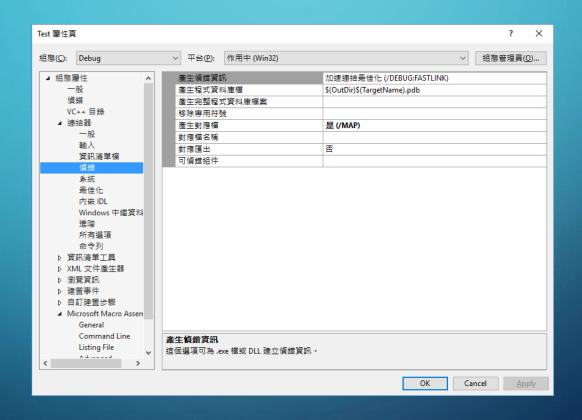
Enter \$(ProjectName).lst into Assembled Code Listing File

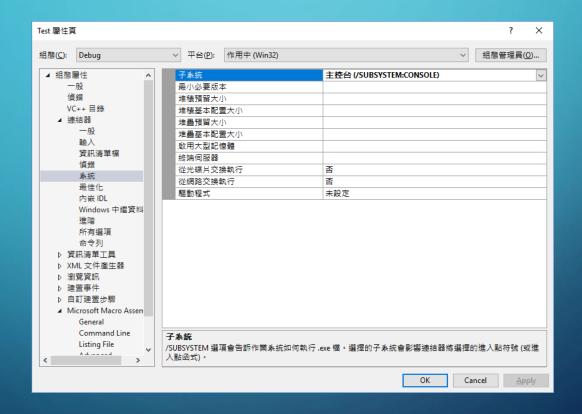




Enter Irvine32.lib; in the front







### CREATE YOUR FIRST .ASM CODE

```
; AddTwo.asm - adds two 32-bit integers.
; Chapter 3 example
.386
.model flat,stdcall
.stack 4096
ExitProcess proto, dwExitCode: dword
.code
main proc
    mov eax,5
    add eax,6
    invoke ExitProcess, O
main endp
end main
```