

# IDE: MS Visual Studio

경희대학교 컴퓨터공학과

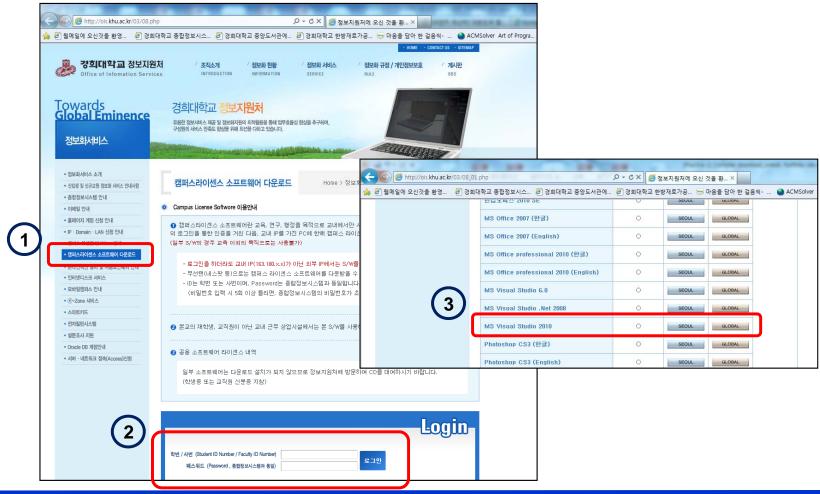
조 진 성

# Integrated Development Environment

- IDE
  - ✓ Editor
  - ✓ Compiler / Linker
  - ✓ Debugger
- MS Visual Studio

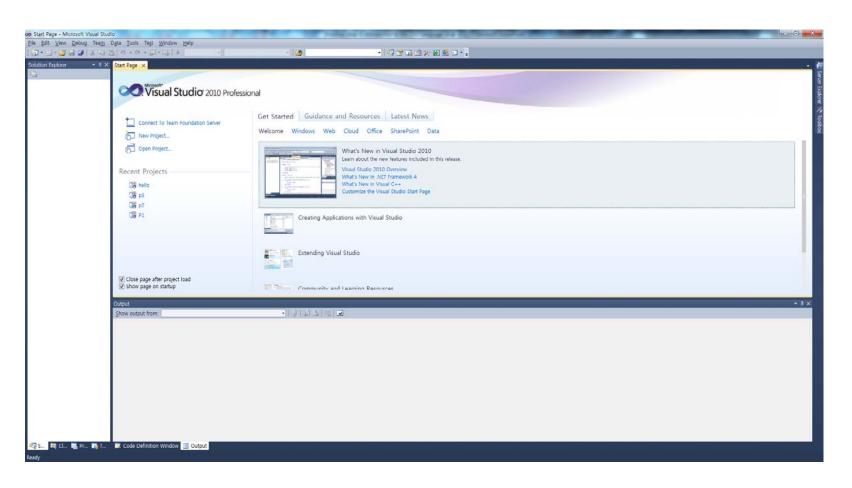


- Download & Installation
  - √ http://ois.khu.ac.kr/03/08.php



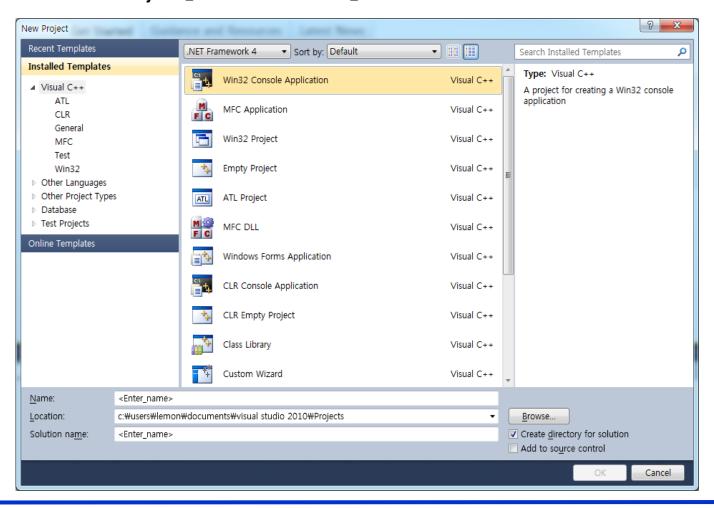


- How to start
  - ✓ Start > All Program > Microsoft Visual Studio 2010 > Microsoft Visual Studio 2010



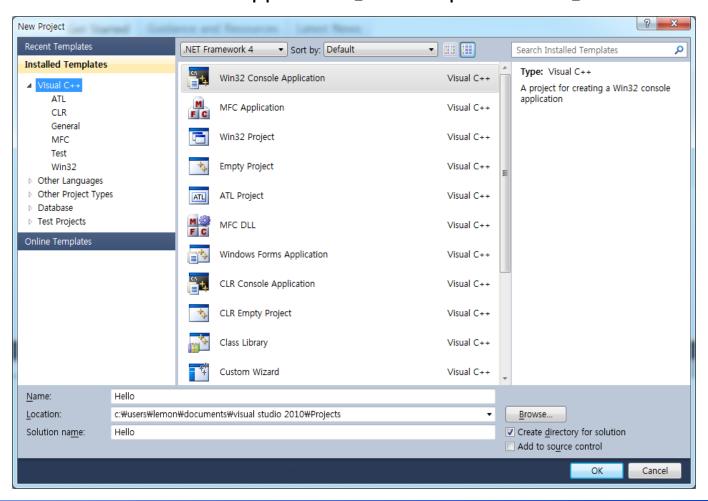


- Create 「Project」
  - ✓ Click 「New Project」 or 「Ctrl + N」



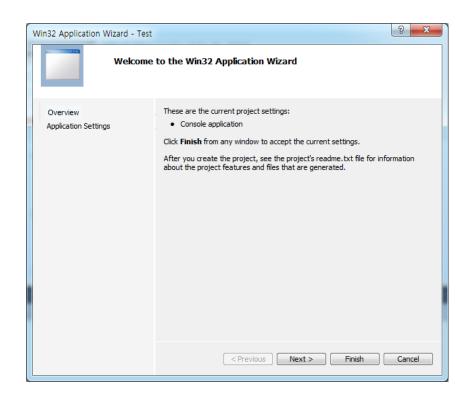


- Create 「Project」
  - ✓ Select 「Win32 Console Application」 and input 「Name」



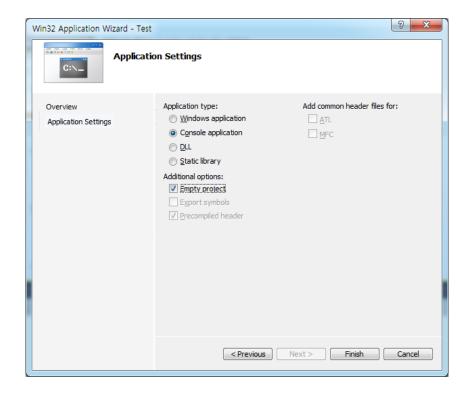


- Create empty 「Project」
  - √ Start 「Win32 Application Wizard」
  - ✓ Click 「NEXT」



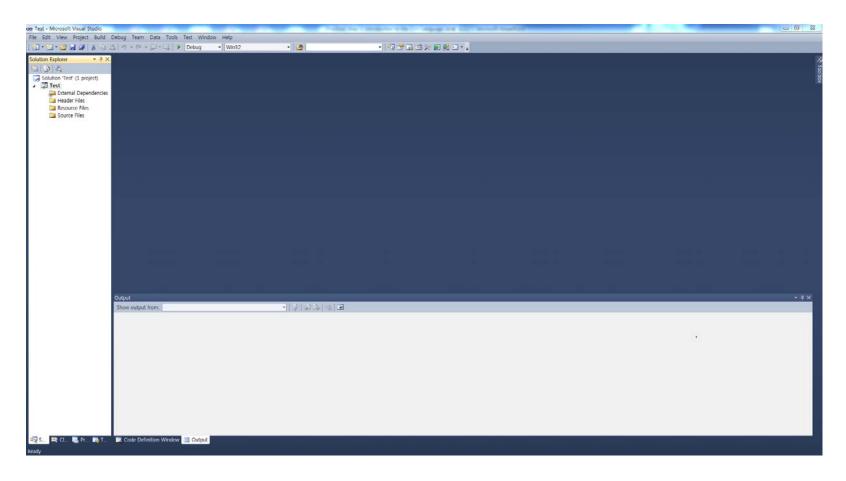


- Create empty 「Project」
  - ✓ 「Win32 Application Wizard」 on the screen
  - ✓ Select 「Empty project」 and click 「Finish」





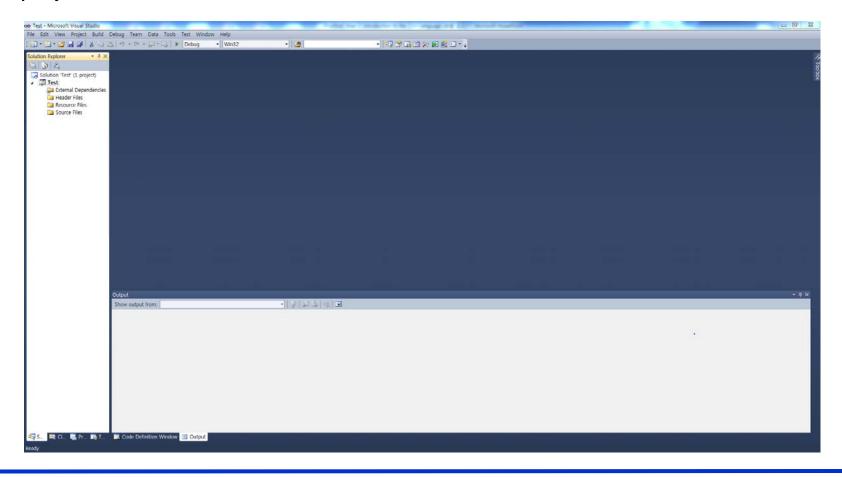
- Create empty 「Project」
  - √ Complete 「Project」 creation





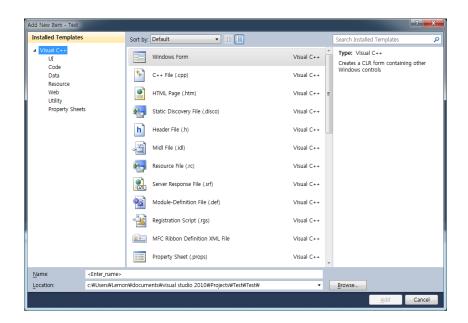
#### ■ Create 「File」

✓ In order to write the code, source code and header files should be added to the project



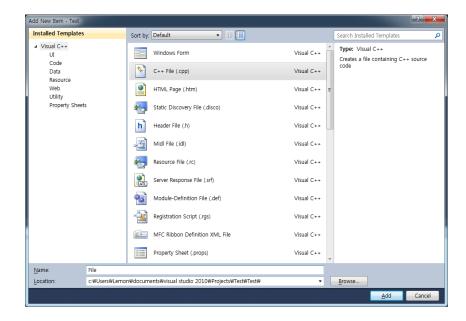


- Create 「File」
  - ✓ 「Add New Item」 on the screen
  - ✓ Press 「Ctrl」 + 「Shift」 + 「A」



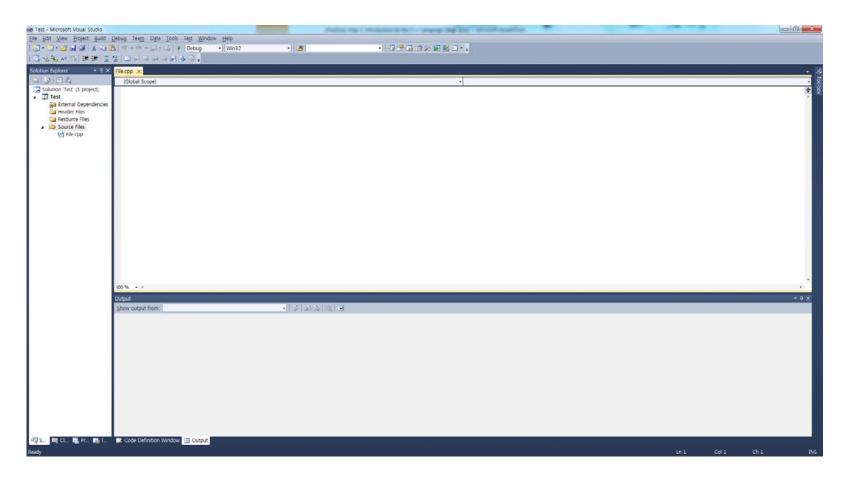


- Create 「File」
  - ✓ Select 「C++ File(.cpp)」
  - ✓ Input 「File Name」 and click 「Add」



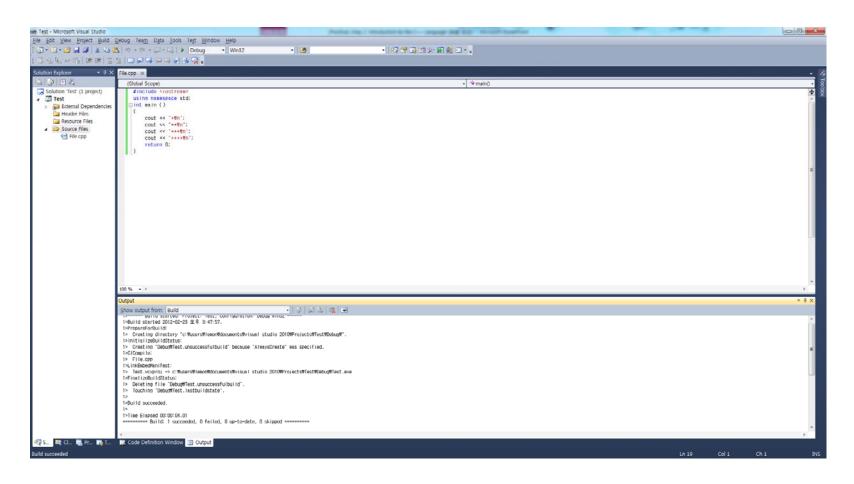


- Create 「File」
  - ✓ Create code editing window





- Editing 「Code」
  - ✓ program in the source code editor





- Compile
  - ✓ Click 「Start Debugging」 or 「F5」

```
© C:#Windows#system32#cmd.exe

**
**
***
***
**
**
계속하려면 아무 키나 누르십시오 . . . . . . .
```



# Debugging

Туре	Documentation
Syntax Errors	<ul> <li>Errors in code due to not following the rules of the language.</li> <li>These errors are caught by the compiler or interpreter.</li> </ul>
Semantic Errors	<ul> <li>Code follows the rules, but it does not do as you intended.</li> <li>These errors are NOT caught by the compiler or interpreter.</li> <li>They can cause a program to crash or hang.</li> </ul>
Logic Errors	<ul> <li>Variables do not contain correct data or program doesn't go down right path.</li> </ul>
Debugger	<ul> <li>Allows you to see what is happening when you run your program so that you can determine the location of semantic errors.</li> <li>Can break (suspend) the execution of the program to examine code, view or change variable values, etc.</li> </ul>
Breakpoints	<ul> <li>"A breakpoint is a signal that tells the debugger to temporarily suspend execution of your program at a certain point."</li> <li>Allows you to suspend exececution so that your program runs until it reaches a breakpoint (in the form of a place or condition that you would like to examine in more detail). You can then walk</li> </ul>

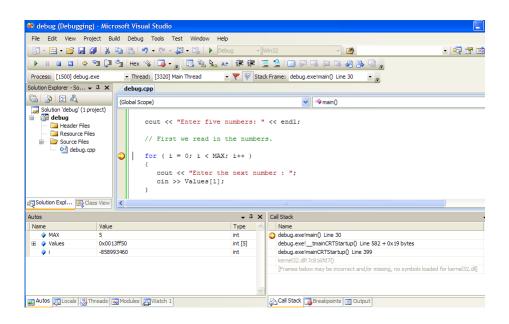


- 1) Set up a project for this program
- 2) Set up a break point

// First we read in the numbers.

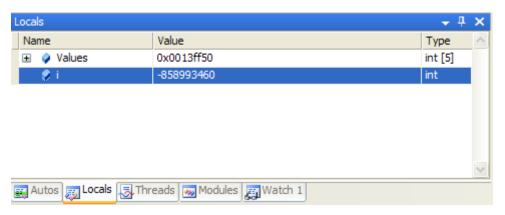
for ( i = 0; i < MAX; i++ )
{
 cout << "Enter the next number : ";
 cin >> Values[1];
}

- 3) Build debug
- 4) Run the program with debug mode (Press 'F5')





5) Use what windows to trace the values of variables



6) Stepping through the code. (Press 'F10' / 'F11')

