C Programming

Practice 1

Introduction

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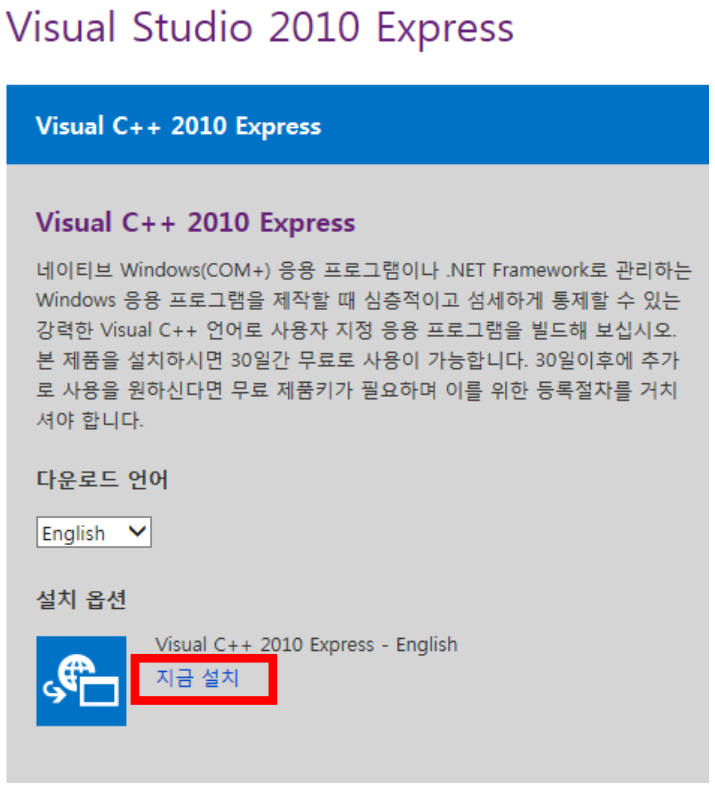
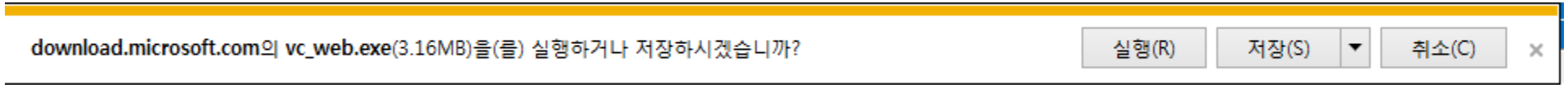
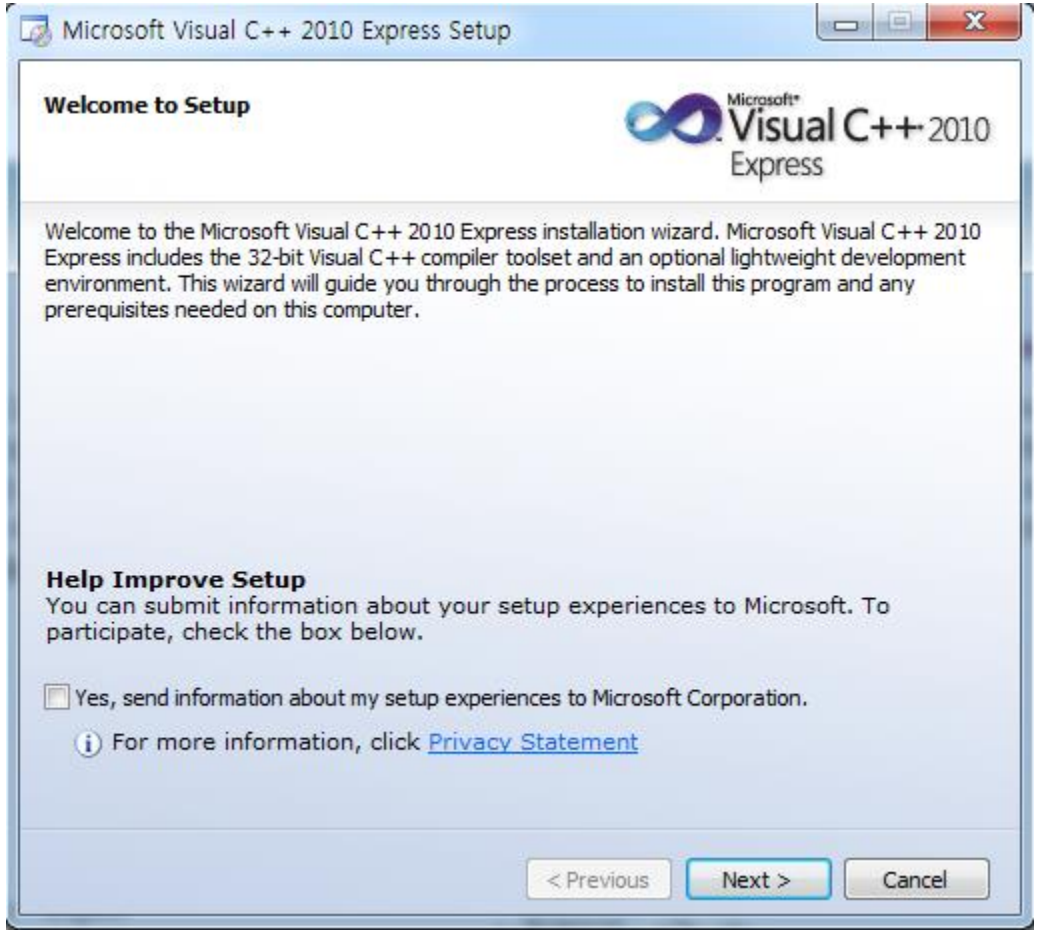
How to use Visual Studio

- http://www.visualstudio.com/downloads/download-visual-studio-vs

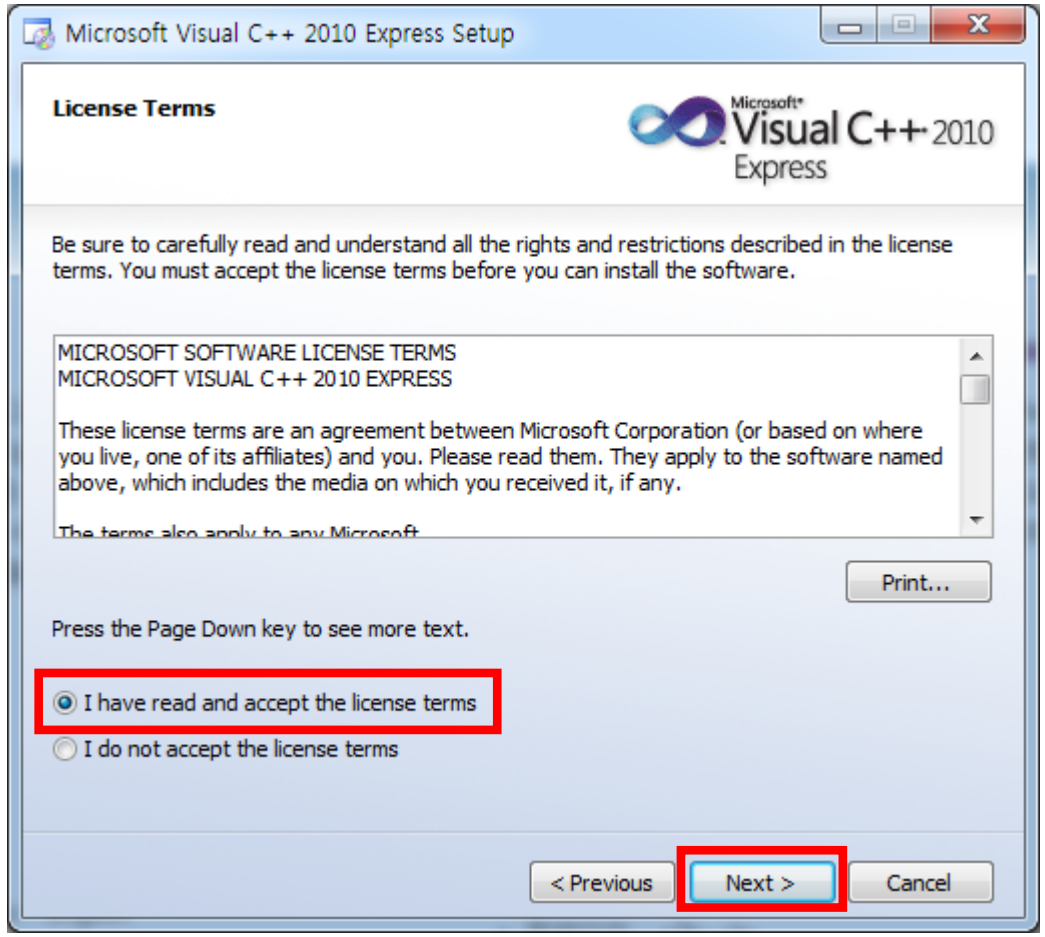


How to use Visual Studio

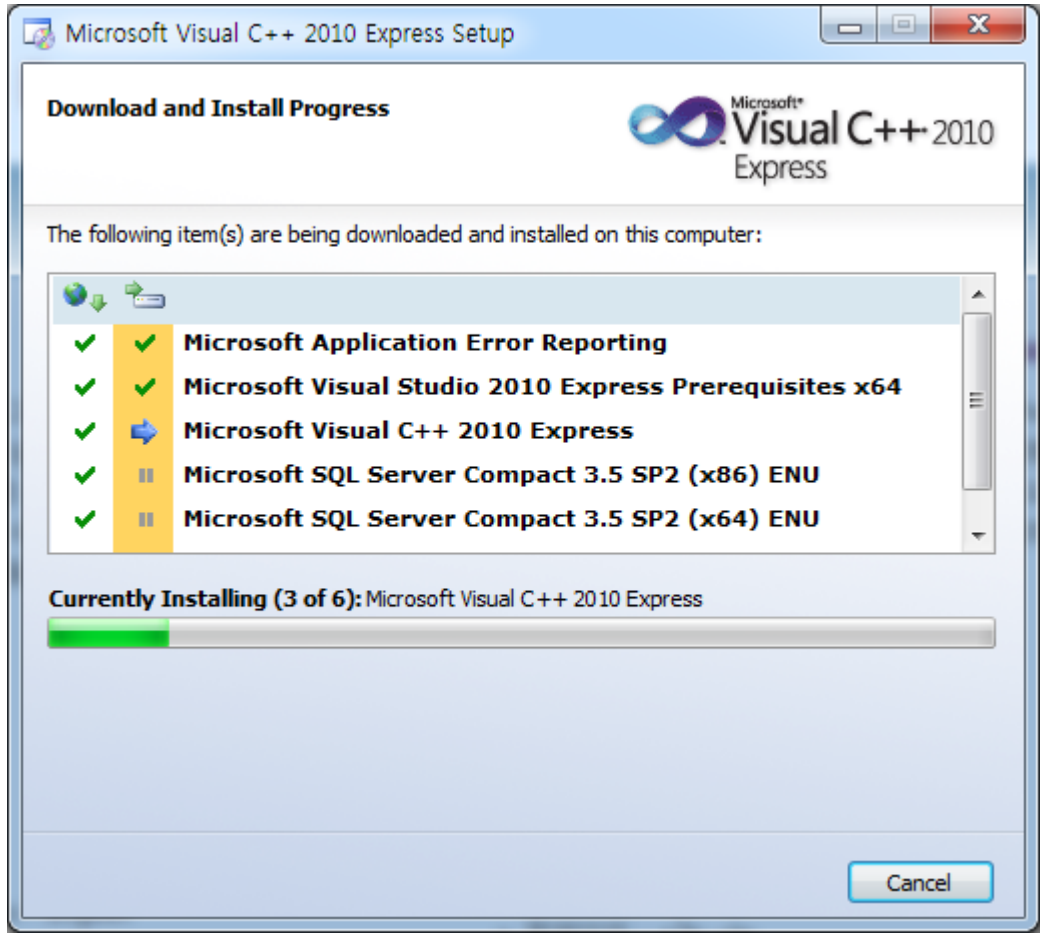




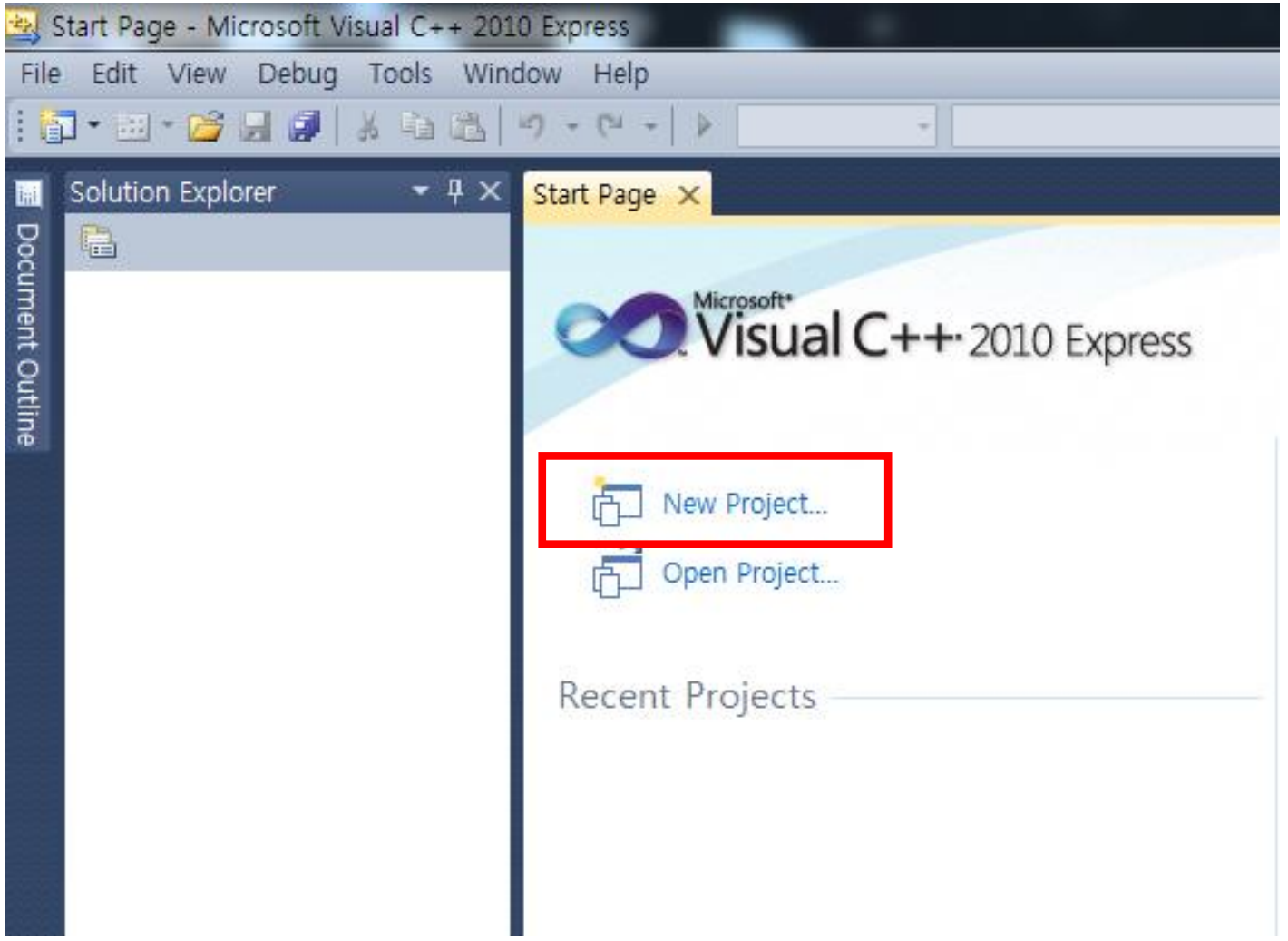
How to use Visual Studio



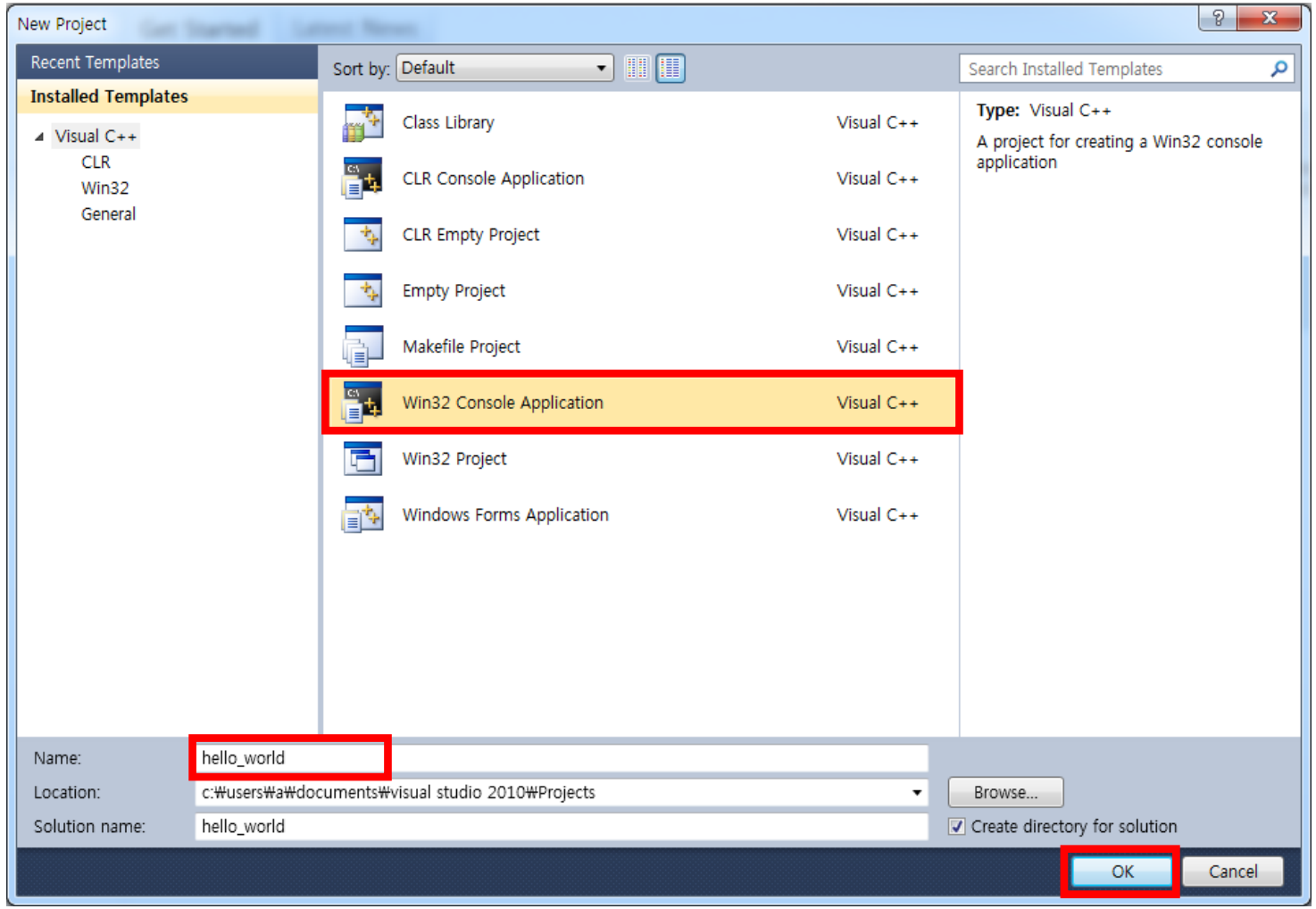
How to use Visual Studio



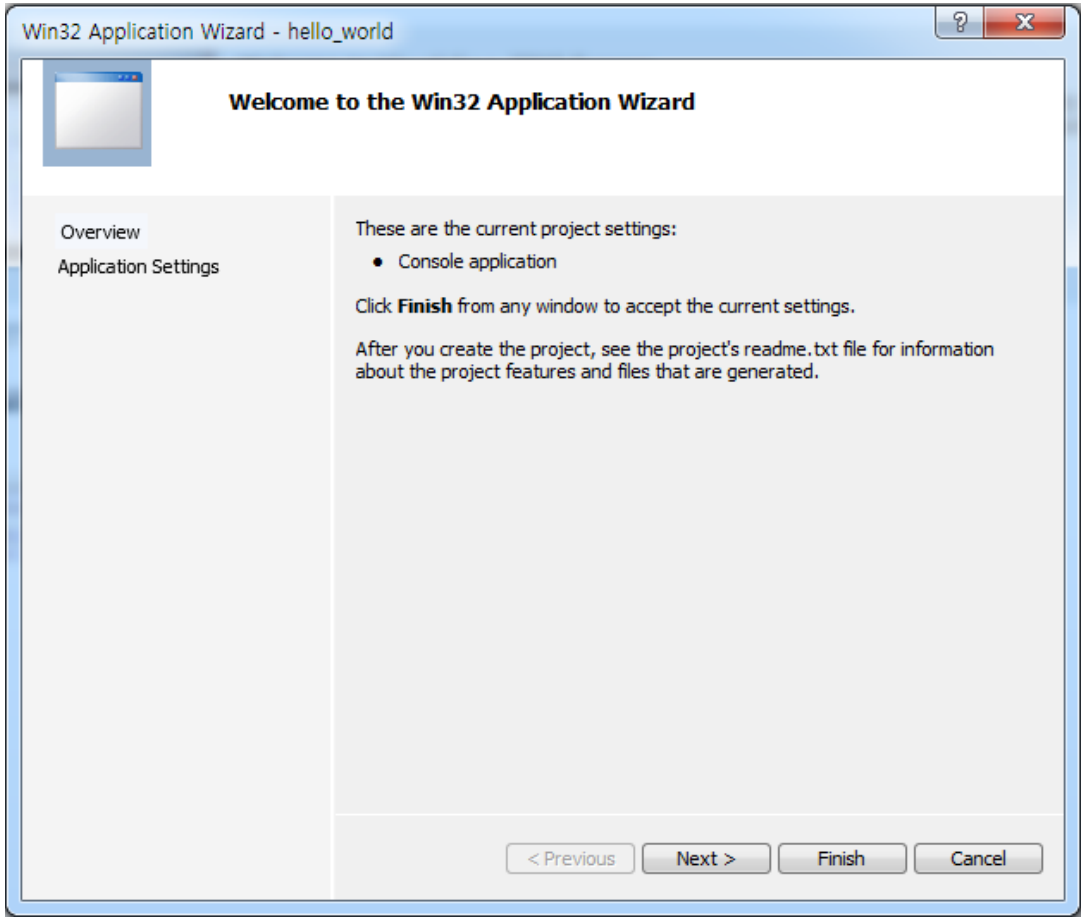
Create the new project

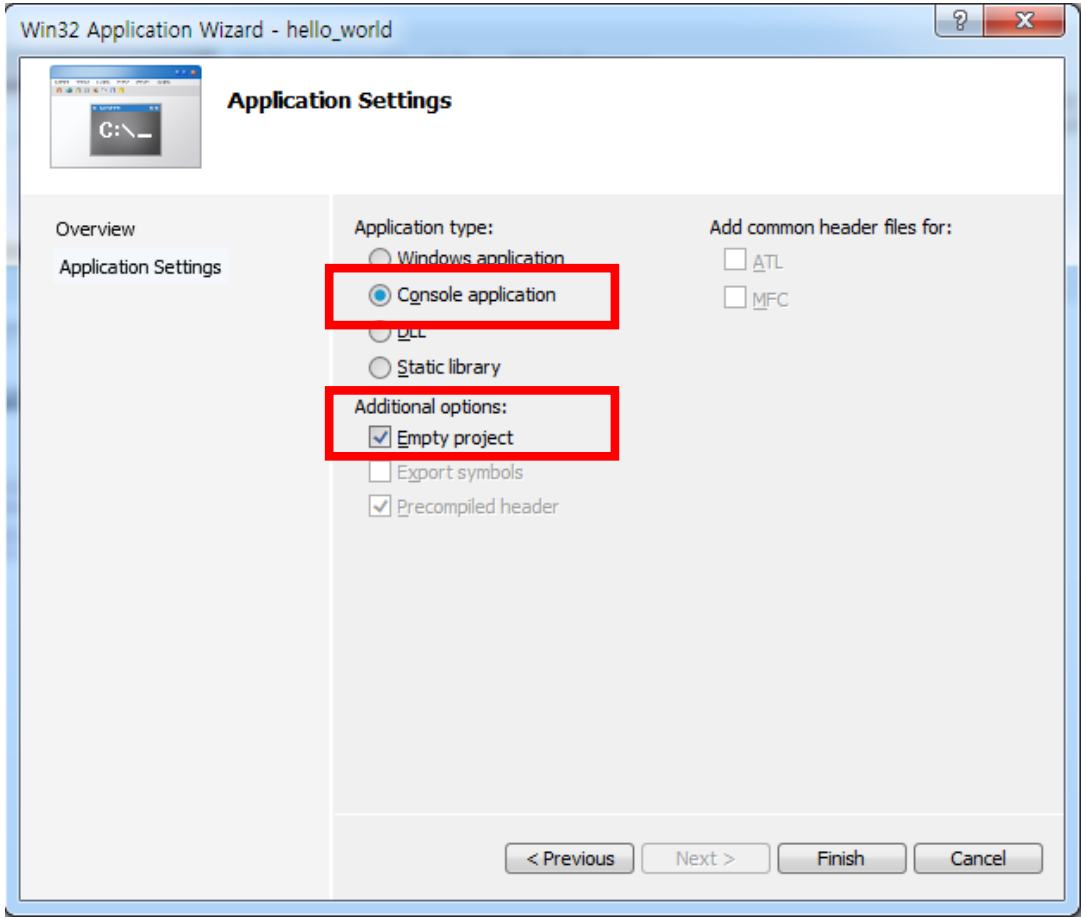


Create the new project

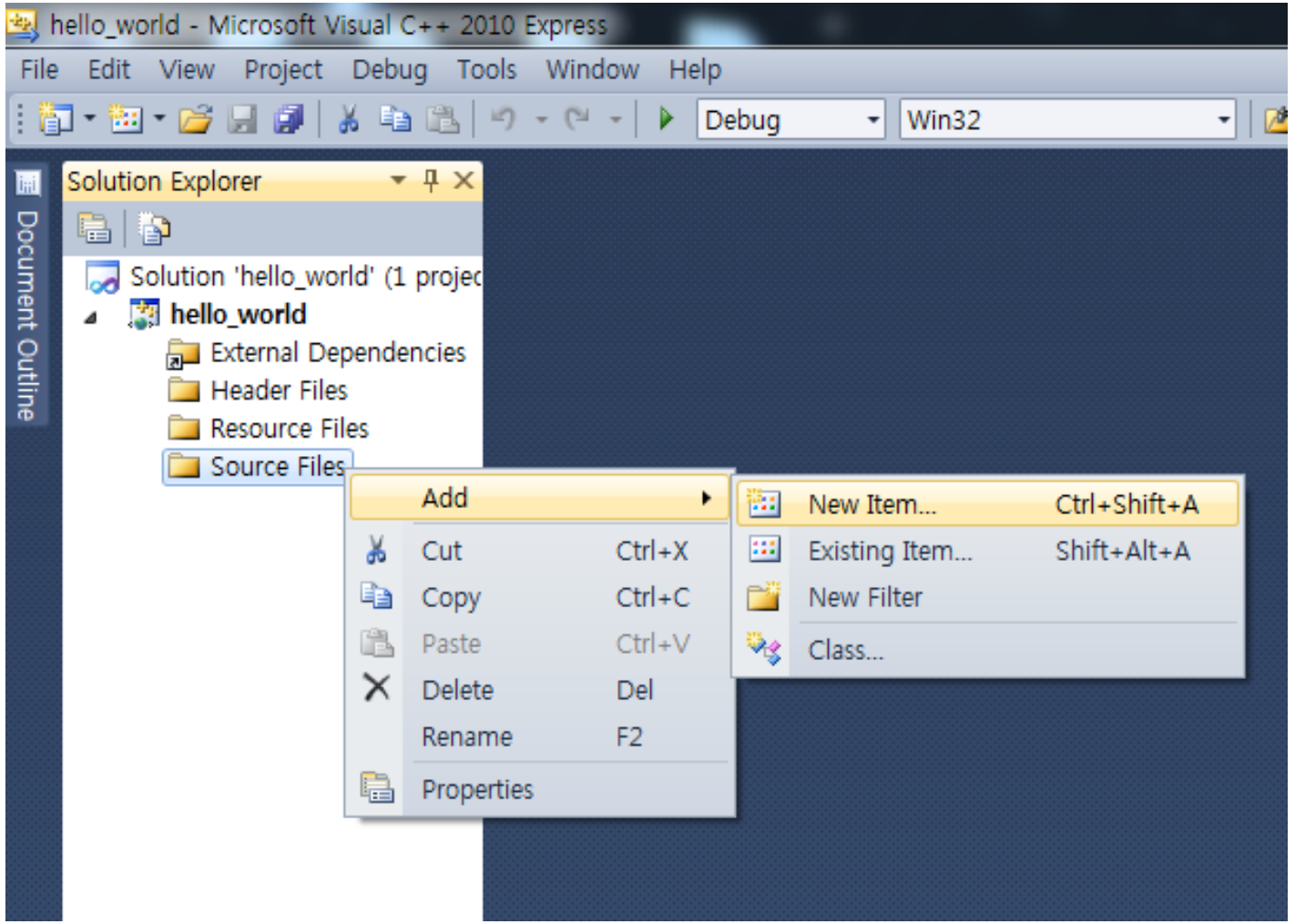


Create the new project

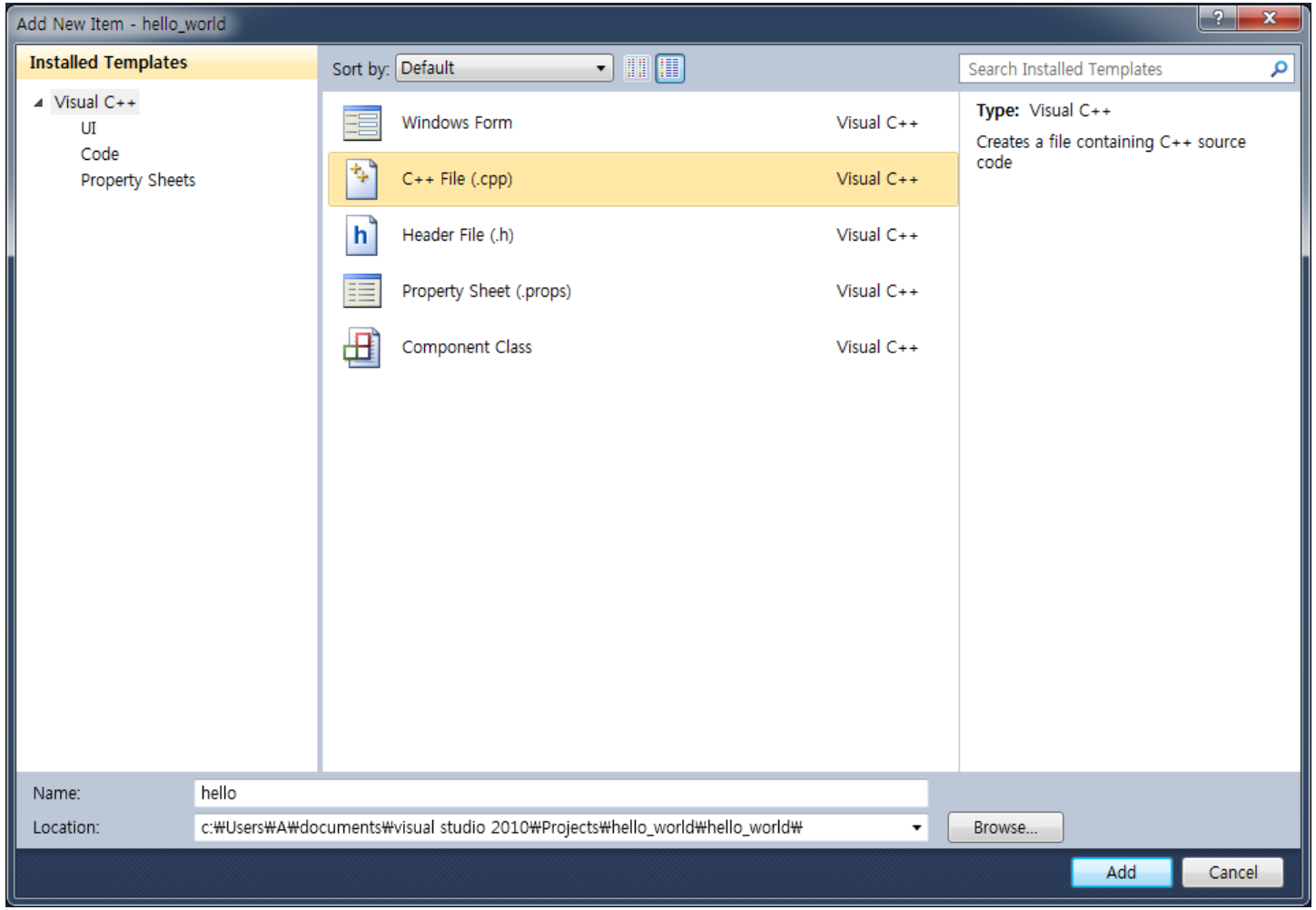




Create the source file



Create the source file

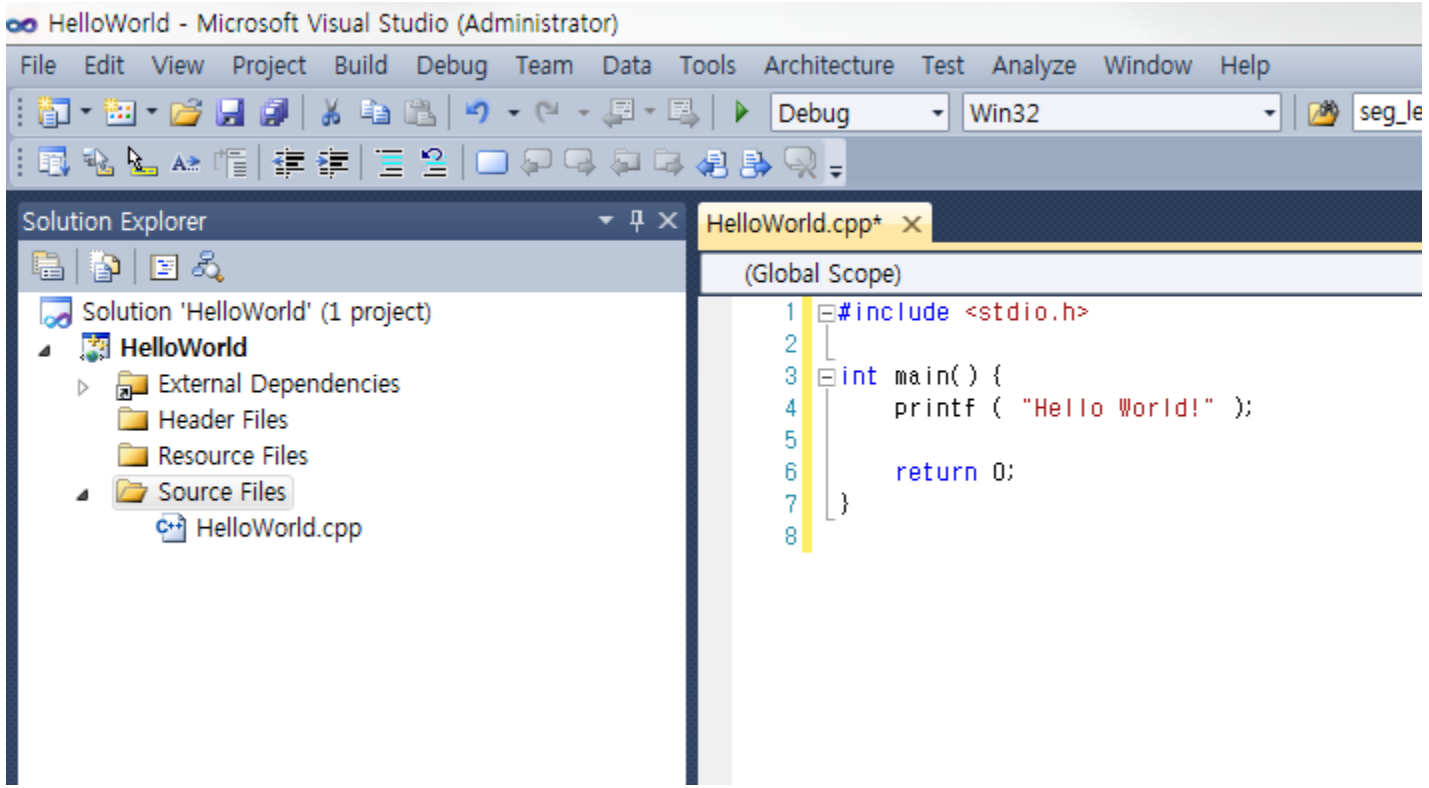


Hello World source code

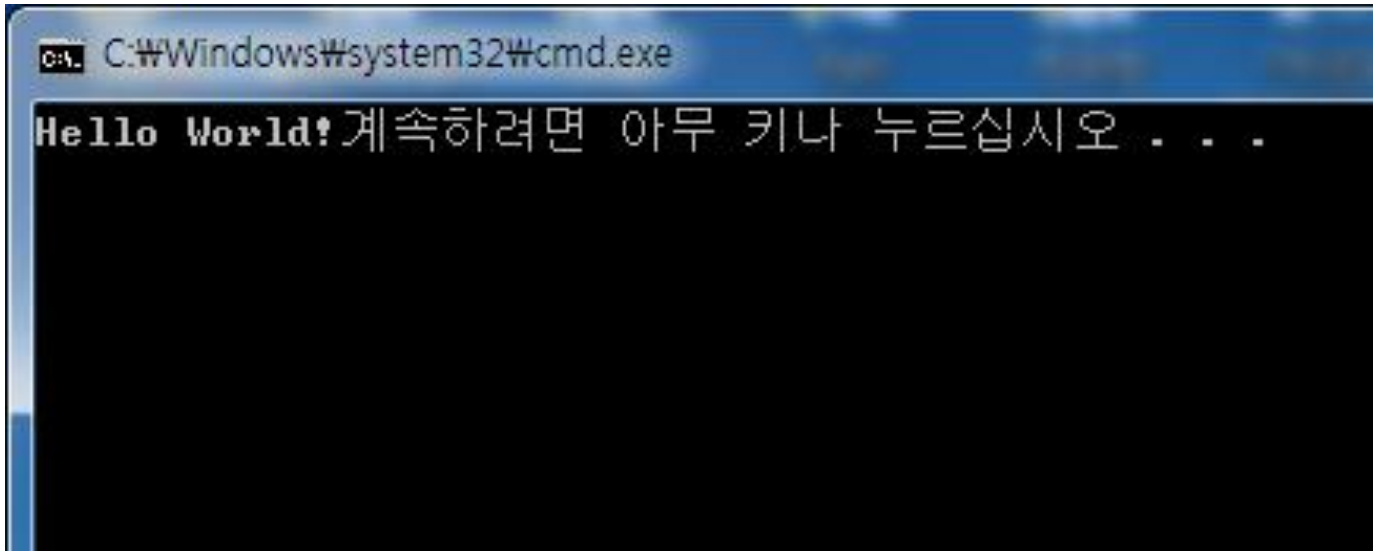
```
#include <stdio.h>

int main() {
        printf(“Hello World!”);
        return 0;
}
```

How to use Visual Studio

- Compile : ctrl + F7
- Build : F7
- Execute : ctrl + F5



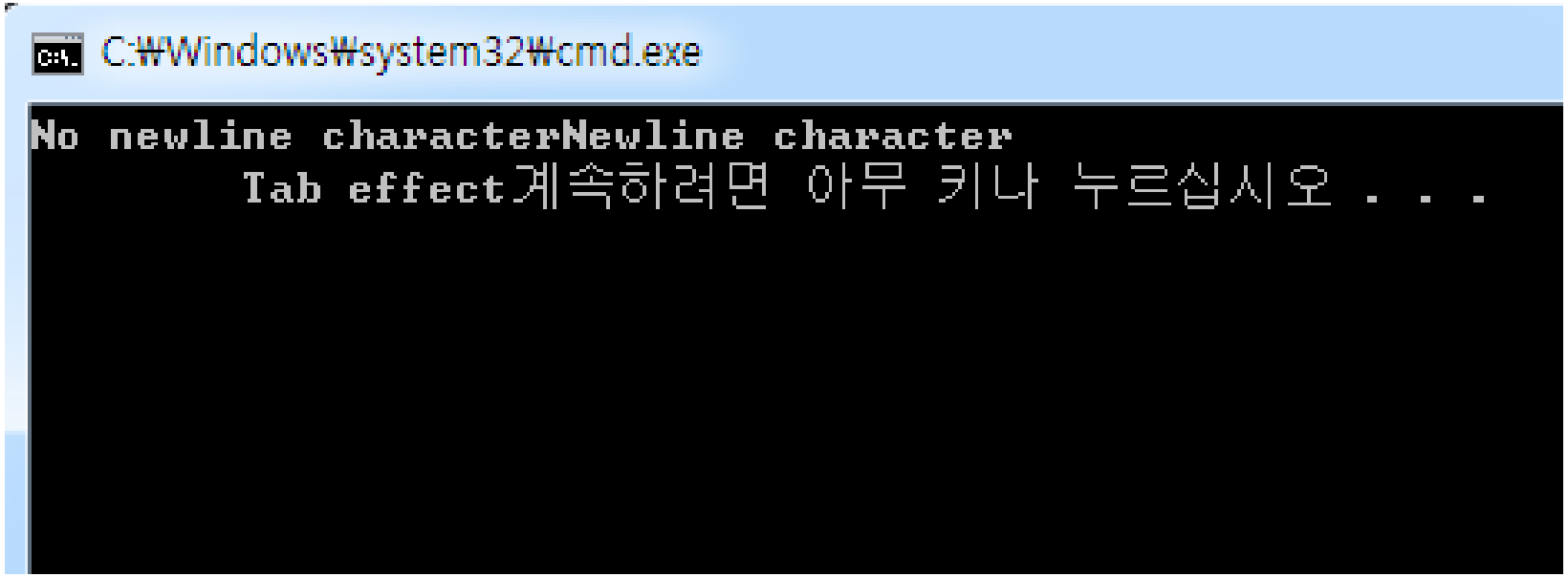
Hello World program result



Printf function new-line character

```
#include <stdio.h>

int main() {
        printf(“No newline character”);
        printf(“Newline character₩n”);
        printf(“₩tTab effect”);
        return 0;
}
```

new-line program result



comments

- How to comment in c language
  1. //hello?
  2. /*hello*/

- When you submit assignments, write the comment about the program.

printf

- Output format character

Format character	Output type
%d, %i	**decimal integer**
%x, %o	Hexadecimal integer, Octal integer
%f, %lf	**Float type real number/double type real number**
%c	**A character**
%s	**String**
%u	Decimal integer(positive only)
%%	% symbol

- Ex)
  - int a = 3;
  - printf (“%d”, a);

scanf

- input format character

Format character	Input type
%d	**decimal integer**
%x, %o	Hexadecimal integer, Octal integer
%f, %lf	**Float type real number/double type real number**
%c	**A character**
%s	**String**
%u	Decimal integer(positive only)

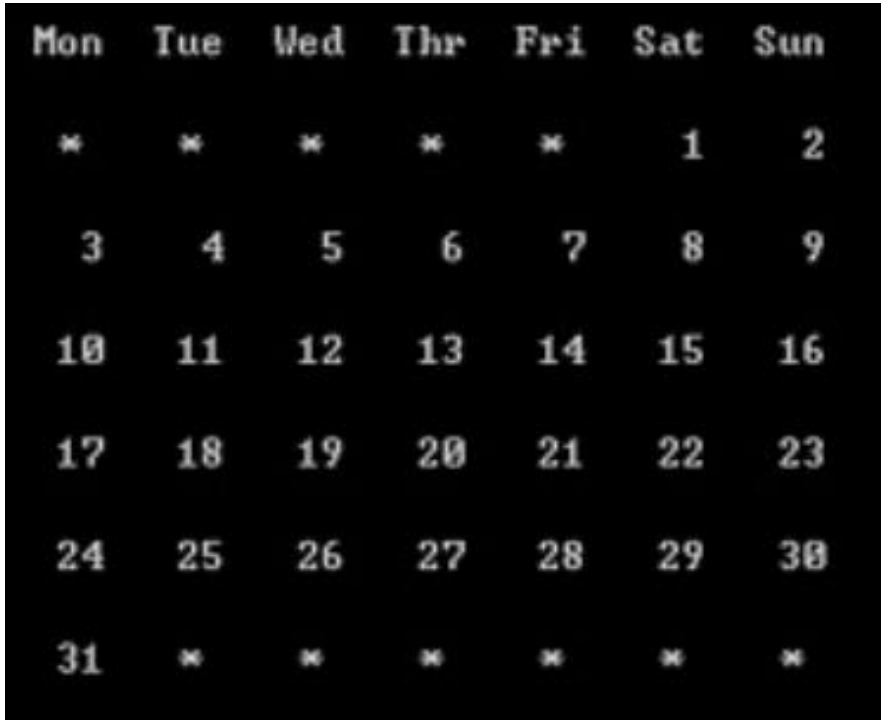
- Ex)
  - int a;
  - scanf (“%d”, &a); <& : address operator>

While statement structure

```
int i = 0; // variable for while statement.

while( i < 10 ) // i < 10 is a conditional sentence.
{
        printf("%d",i); // print the i value.
        i = i + 1; // change the i value.
}
```

Homework 1 - Calendar

- In the following format, print September calendar (2015. 9)



Homework 2 - Multiplication table

- Input a number and print the multiplication table of the number
- Use the while statement

```
Input number:
7
****7****
7*1 = 7
7*2 = 14
7*3 = 21
7*4 = 28
7*5 = 35
7*6 = 42
7*7 = 49
7*8 = 56
7*9 = 63
*********
```

Homework form

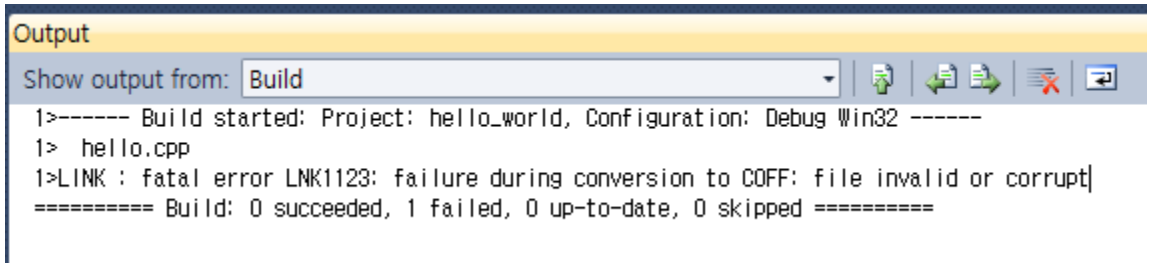
- Homework submission e-mail:

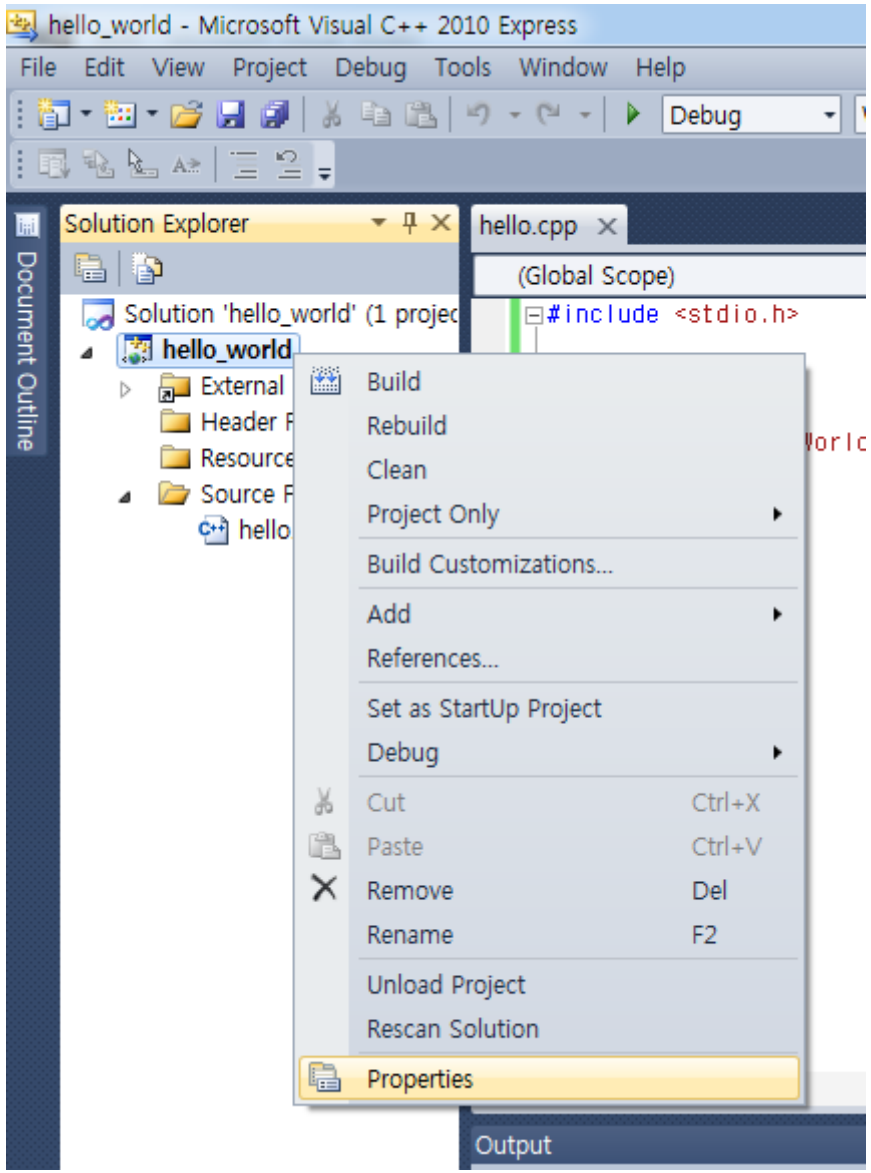
hizorro99@naver.com

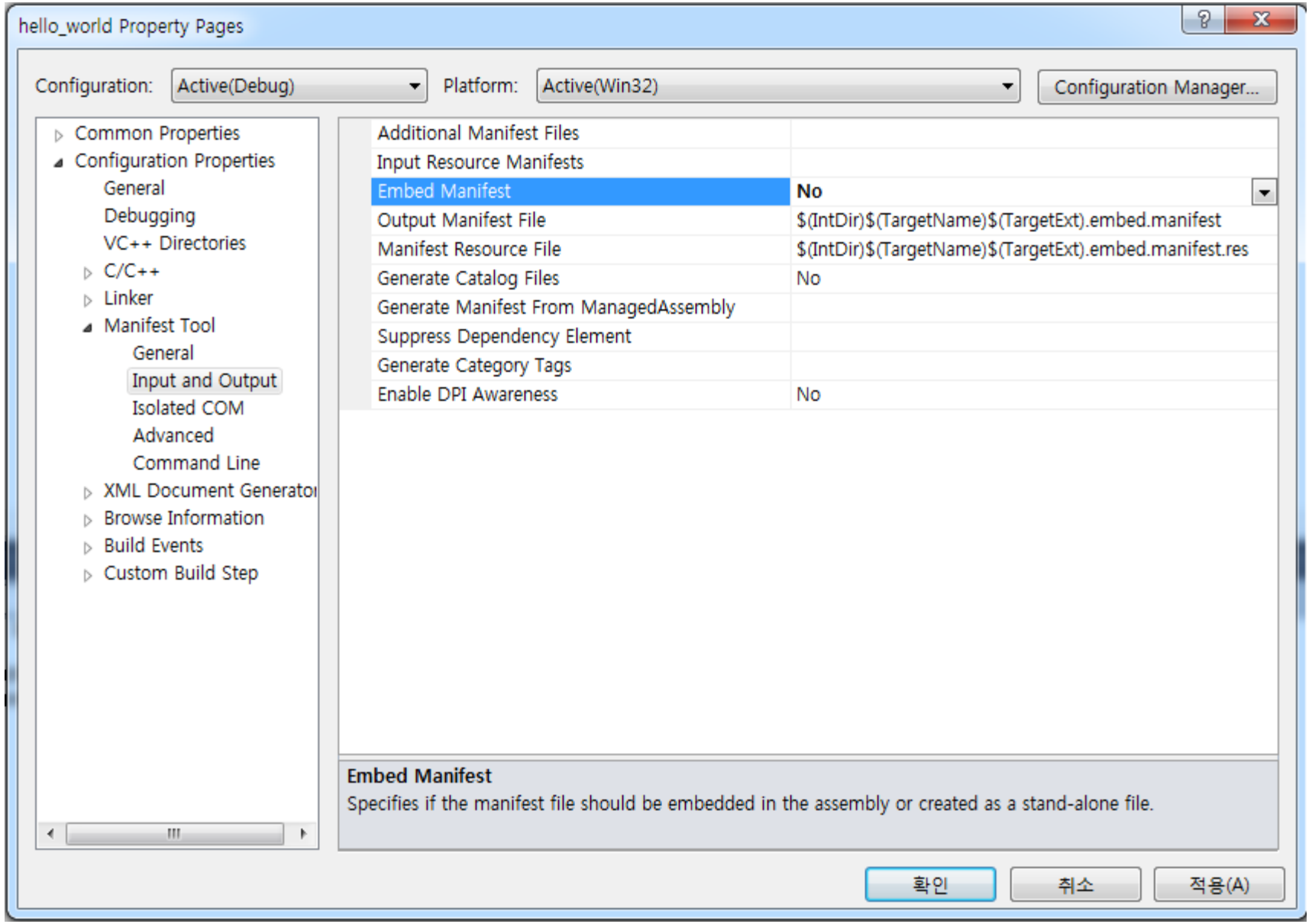
- E-mail title: day(Thursday or Friday)_name_#week
  - Ex) Friday_james_week2
  - Ex) 금요일반_장원철_2주차
- File title: student id_name_week#_1.c
  - Ex) 2014123456_james_week2_1.c (or .cpp)
  - Ex) 2014123456_james_week2_2.c (or .cpp)

예외

- 이러한 오류가 뜨는 경우




hello_world - Microsoft Visual C++ 2010 Express
File Edit View Project Debug Tools Window Help
Debug
Solution Explorer
Solution 'hello_world' (1 projec
hello_world
External
Header F
Resource
Source F
hello
Document Outline
hello.cpp
(Global Scope)
#include <stdio.h>
Build
Rebuild
Clean
Project Only
Build Customizations...
Add
References...
Set as StartUp Project
Debug
Cut Ctrl+X
Paste Ctrl+V
Remove Del
Rename F2
Unload Project
Rescan Solution
Properties
Output


hello_world Property Pages
Configuration: Active(Debug)
Platform: Active(Win32)
Configuration Manager...
Common Properties
Configuration Properties
General
Debugging
VC++ Directories
C/C++
Linker
Manifest Tool
General
Input and Output
Isolated COM
Advanced
Command Line
XML Document Generator
Browse Information
Build Events
Custom Build Step
Additional Manifest Files
Input Resource Manifests
Embed Manifest
No
Output Manifest File
$(IntDir)$(TargetName)$(TargetExt).embed.manifest
Manifest Resource File
$(IntDir)$(TargetName)$(TargetExt).embed.manifest.res
Generate Catalog Files
No
Generate Manifest From ManagedAssembly
Suppress Dependency Element
Generate Category Tags
Enable DPI Awareness
No
Embed Manifest
Specifies if the manifest file should be embedded in the assembly or created as a stand-alone file.
확인
취소
적용(A)