C Programming

Practice 0

Introduction

- Teaching assistant : Won-cheol Jang (장원철)
- Assignment submission e-mail:

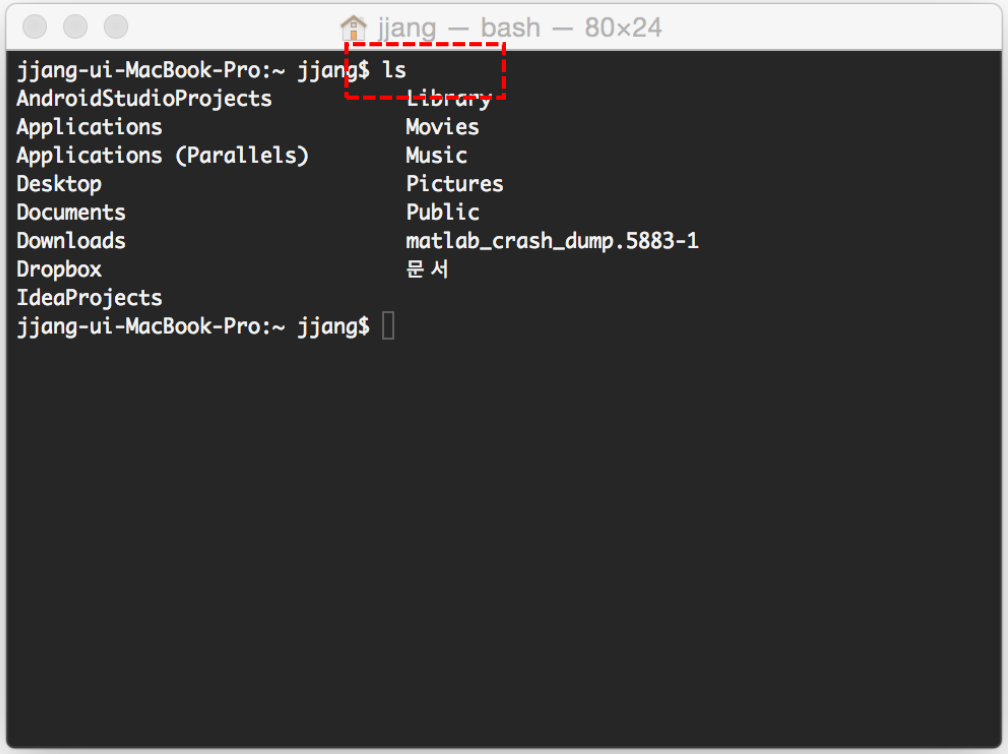
  hizorro99@naver.com
- E-mail title: day(Thursday or Friday)_name_#week
  - Ex) Thursday_james_2week
- File title: student id_name_#week.c
  - Ex) 2014123456_james_2week.c

- Weekly assignment: each 1 point / semester's maximum score: 15
- 3 Project: each 5 point / semester's maximum score: 15

Linux brand


archlinux
Fuduntu
Lubuntu
Mandriva
openSUSE
xubuntu
archbang
CentOS
kubuntu
core
ubuntuZORIN
KNOPPIX
mageia
Linux Mint
PCBSD
sabayon
Scientific
debian
fedora
PCLinuxOS
Puppy
UE
Ultimate Edition
Vector
bodhi
CHAKRA
FreeBSD
gentoo linux
PinguyOS
slackware

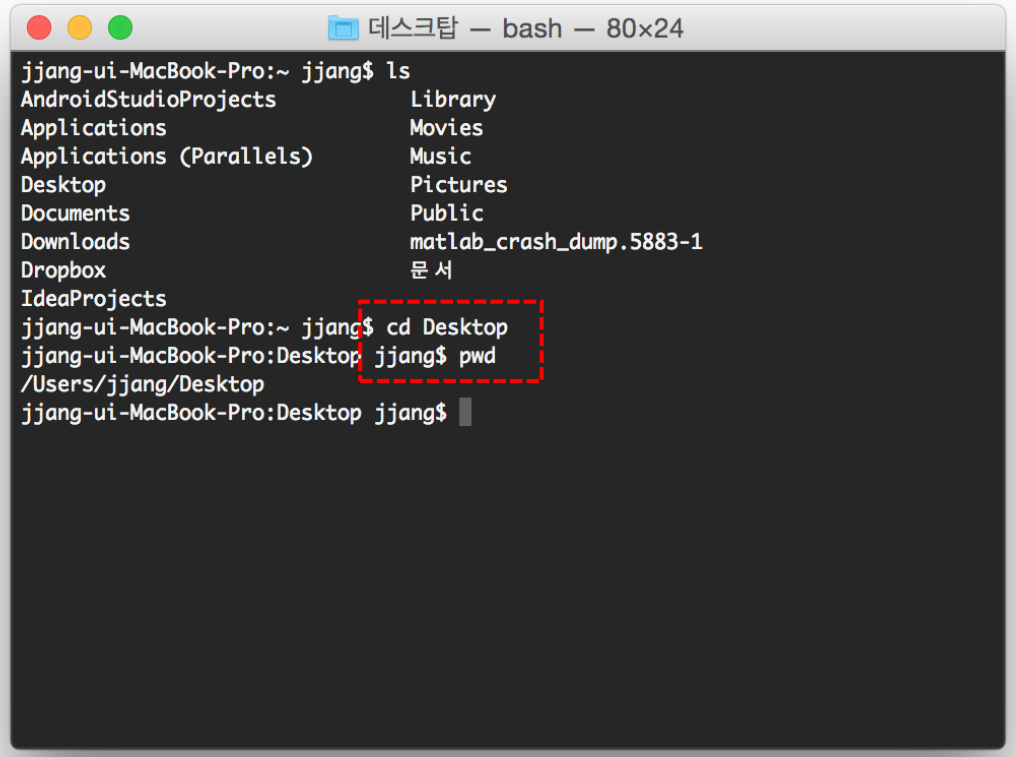
Linux terminal - Navigation



$ ls - list files and directories

Reference: http://linuxcommand.org/index.php

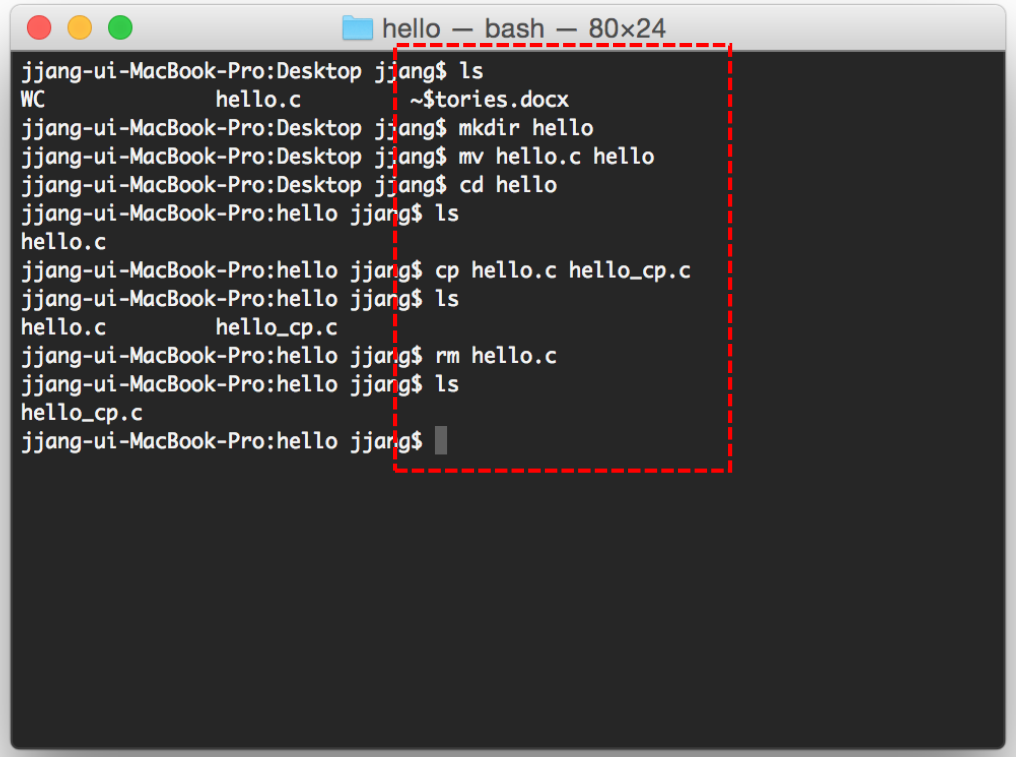
Linux terminal - Navigation



$ cd - change directory

$ pwd - print working directory

Linux terminal - Manipulating Files



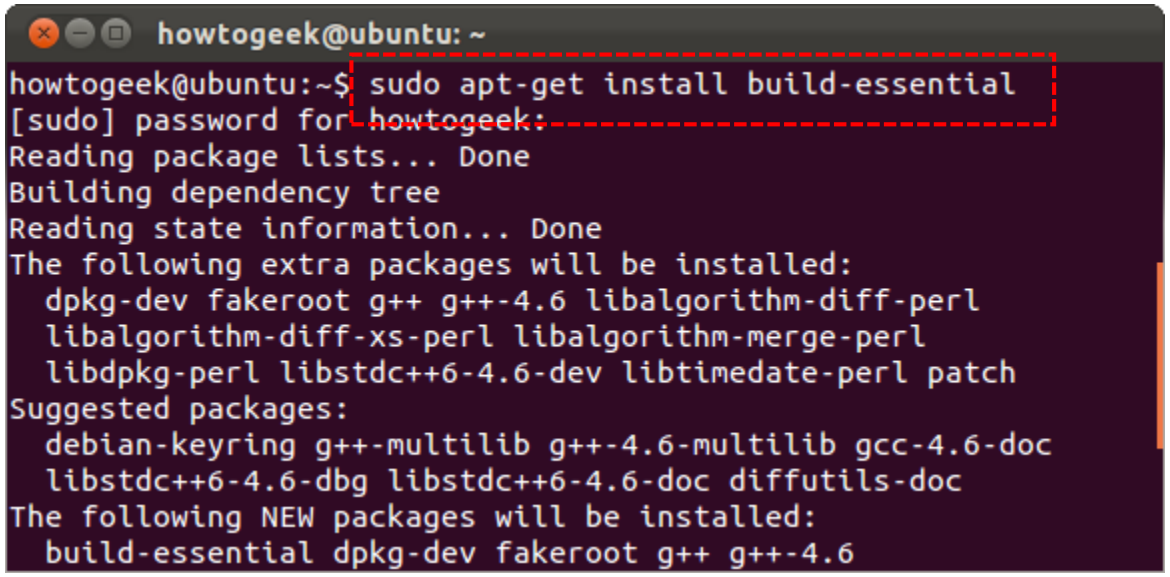
$ mkdir - create directories

$ mv - move or rename files

$ cp - copy files and directories

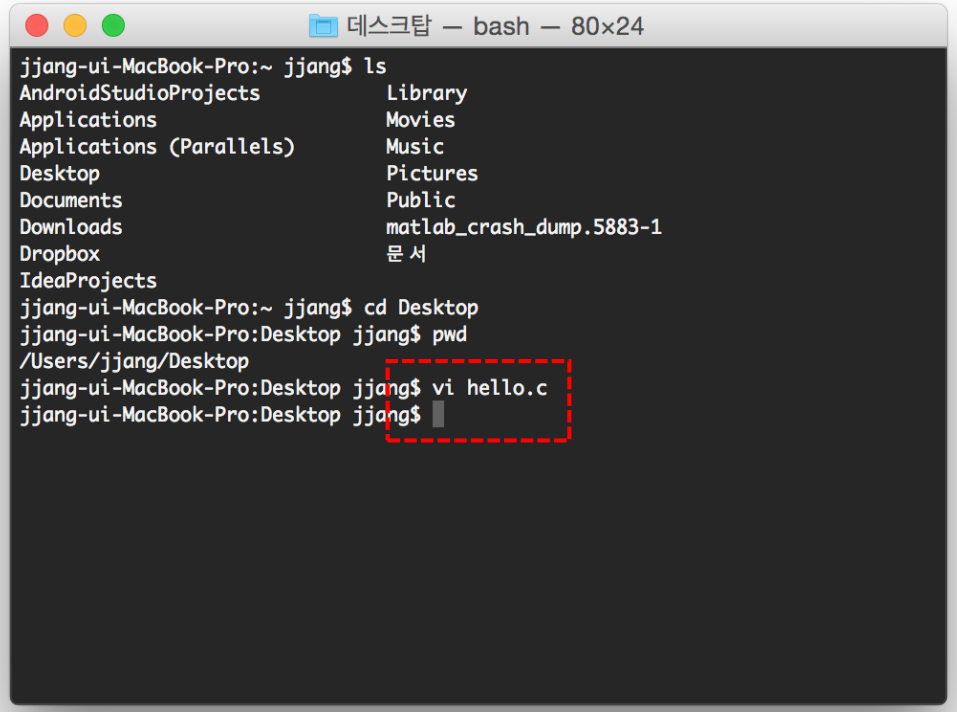
$ rm - remove files and directories

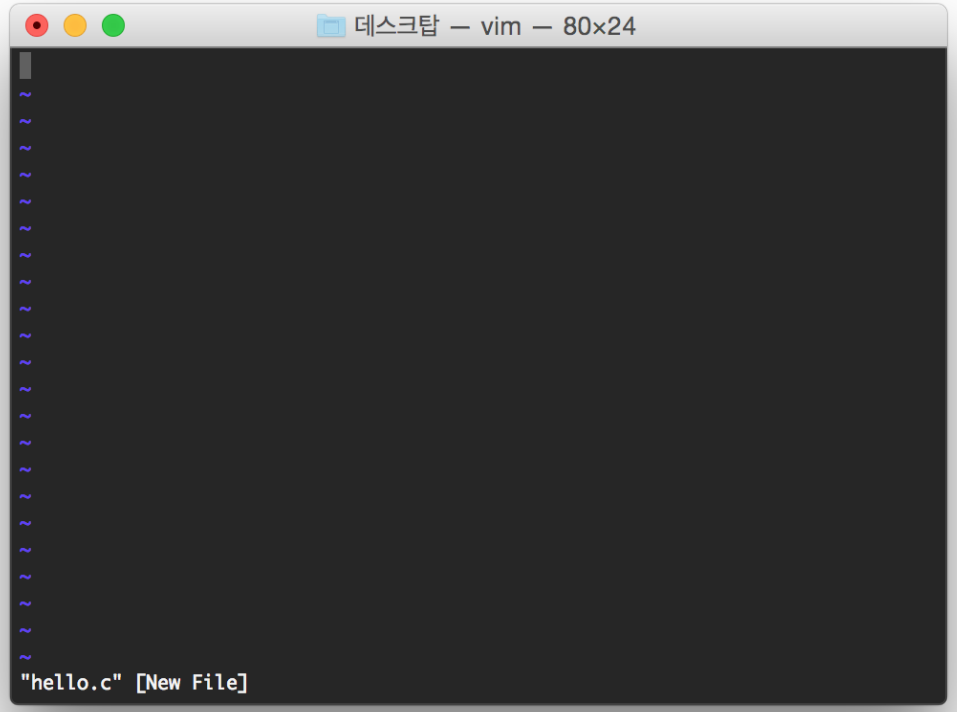
GCC (GNU Compiler Collection) installation



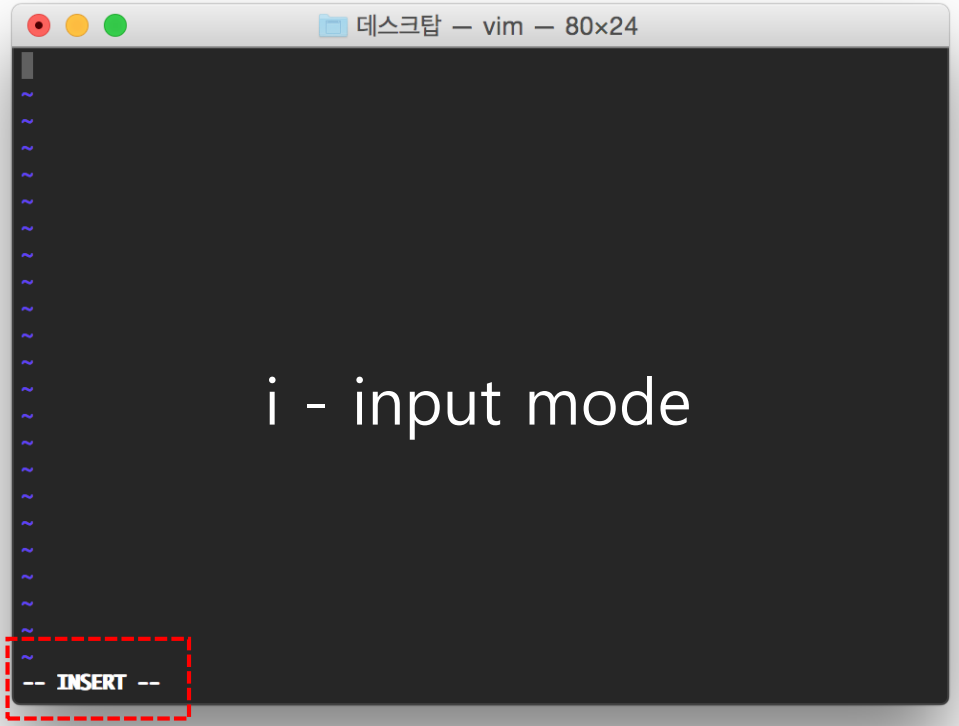
$ sudo apt-get install build-essential

How to use vi editor

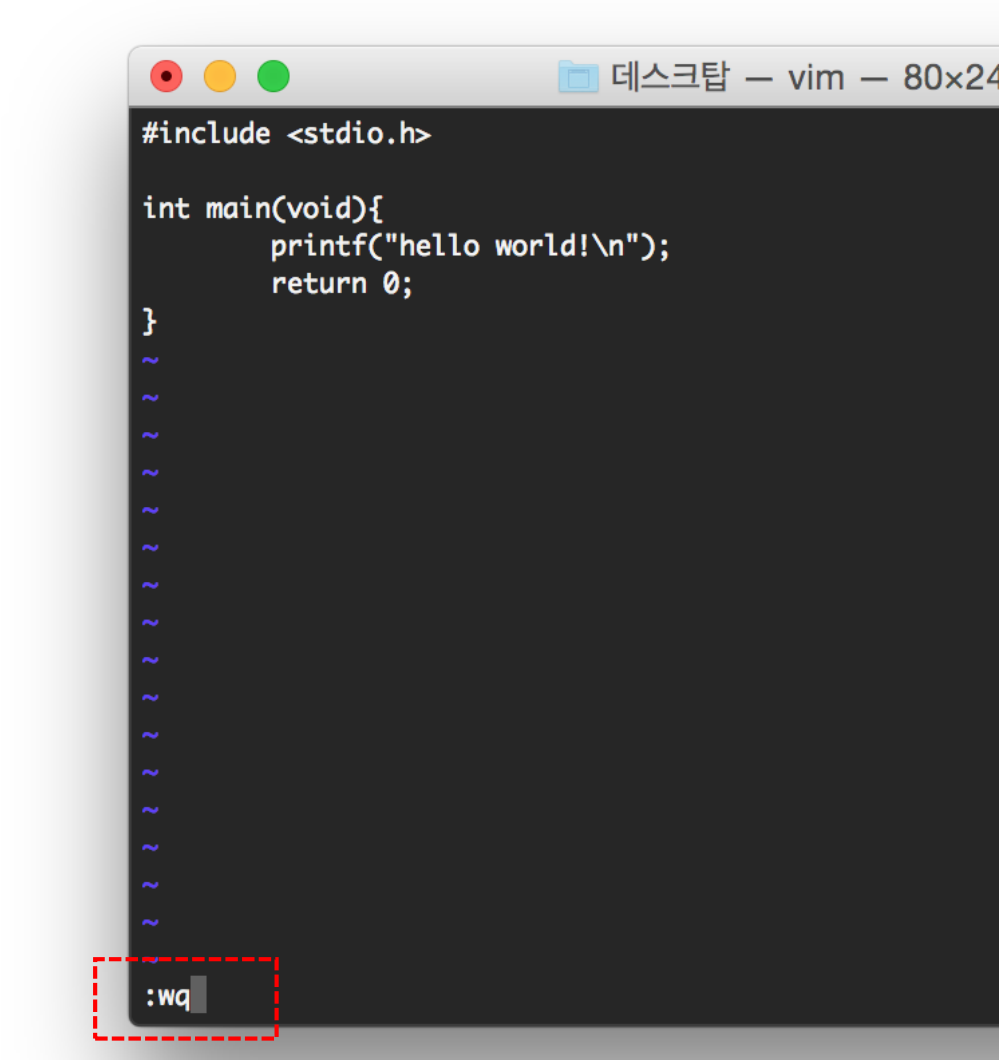




How to use vi editor



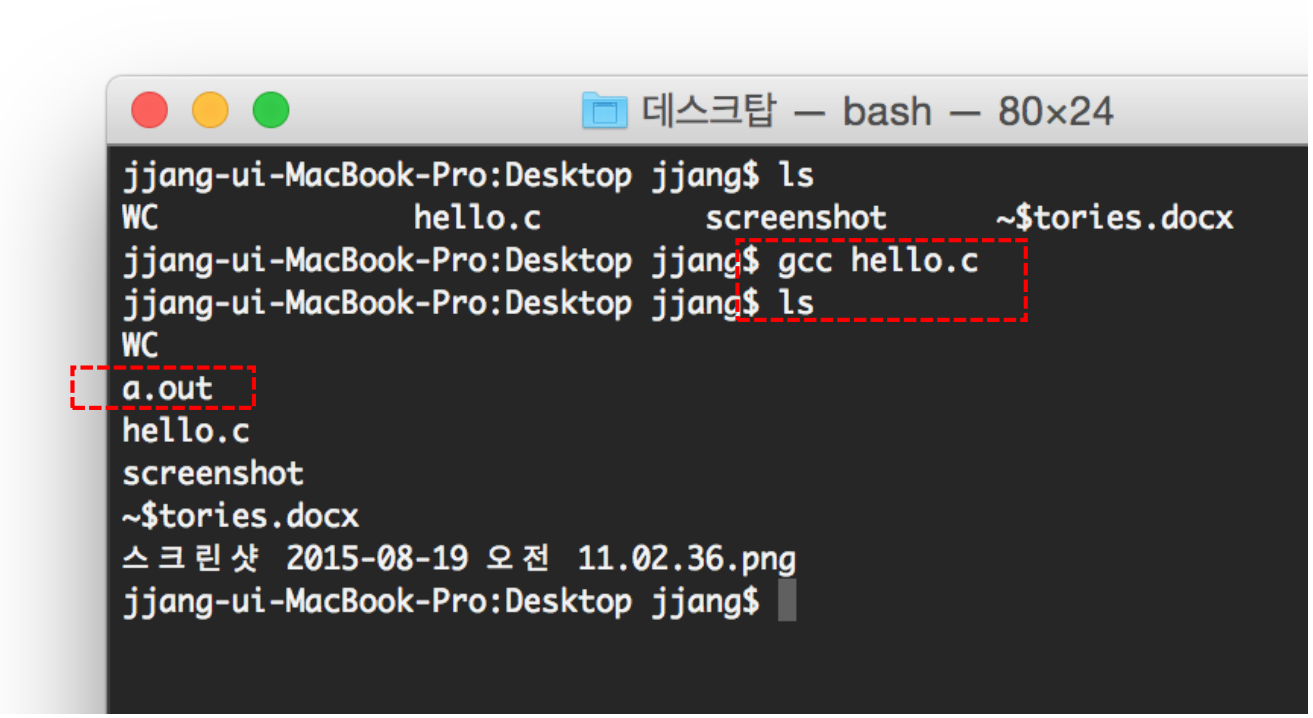
How to use vi editor



Esc – command mode

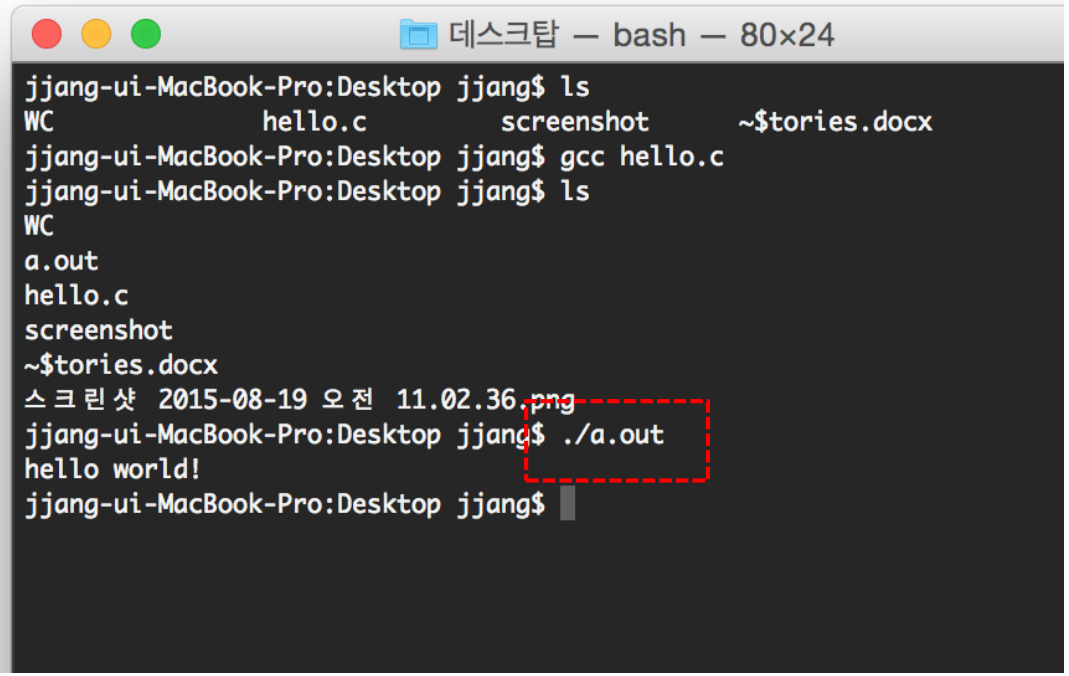
:wq – save and quit

Compile the program



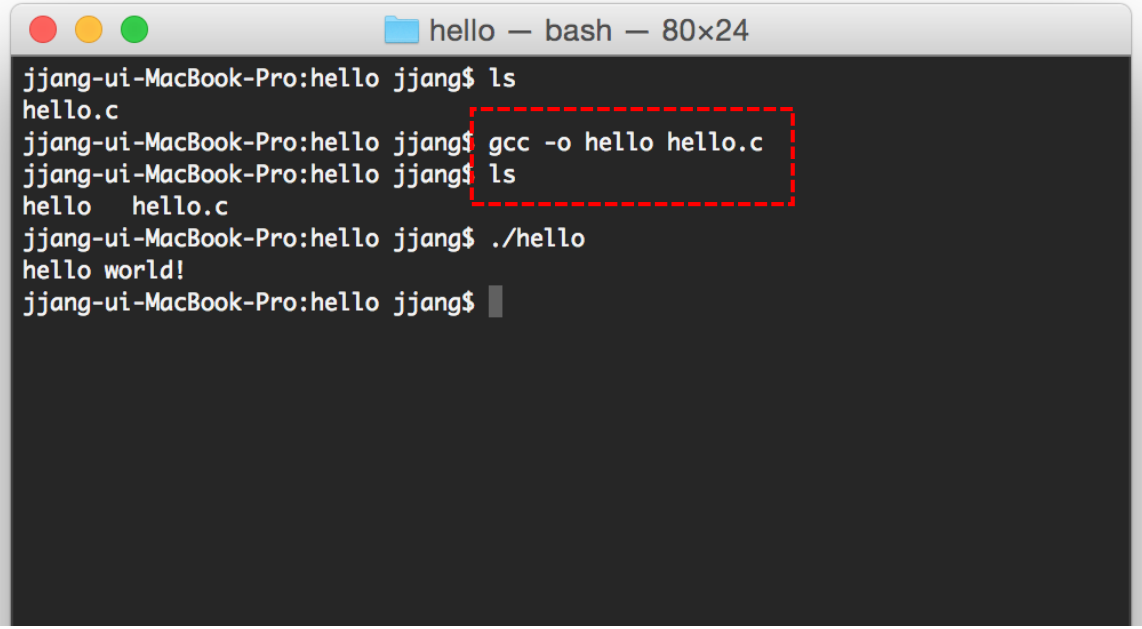
$ gcc filename(.c) - compile c code

Execute the program



$ ./filename - execute program

How to use gcc options (-o)



$ gcc -o filename filename(.c)
- execute program

How to use gcc options (-o)

codes — v

```
#include <stdio.h>

void func1();
void func2();
~
~
~
~
~
```

test.h

code

```
#include "test.h"

int main(void){
        func1();
        func2();
        return 0;
}
~
~
```

main.c

codes — v

```
#include <stdio.h>

void func1(){
        print("function1\n");
}
~
~
~
~
~
~
```

func1.c

code

```
#include <stdio.h>

void func2(){
        print("function2\n");
}
~
~
~
~
~
~
```

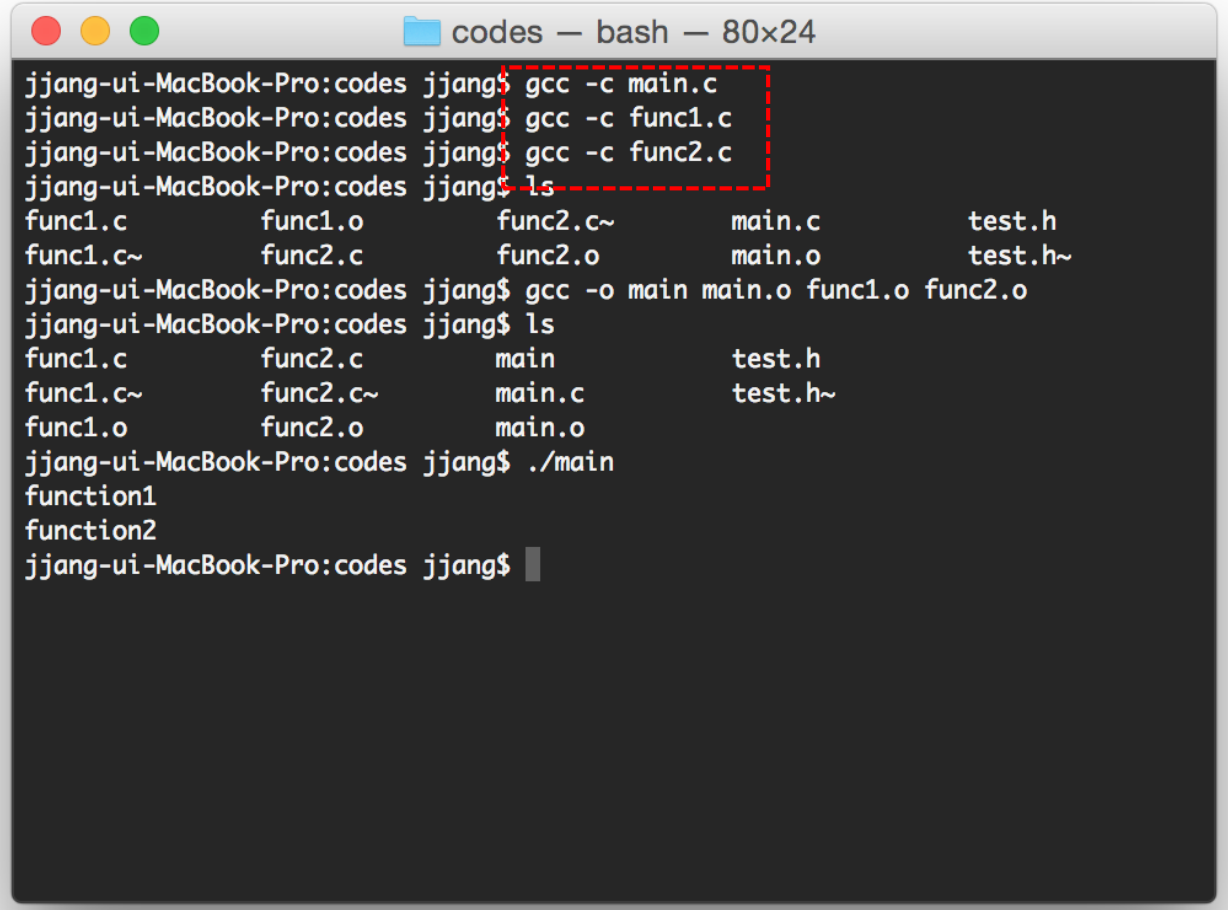
func2.c

codes — bash — 80×24

```
jjang-ui-MacBook-Pro:codes jjang$ ls
func1.c         func2.c         main.c          test.h~
func1.c~        func2.c~        test.h
jjang-ui-MacBook-Pro:codes jjang$ gcc -o main main.c func1.c func2.c
jjang-ui-MacBook-Pro:codes jjang$ ls
func1.c         func2.c         main            test.h
func1.c~        func2.c~        main.c          test.h~
jjang-ui-MacBook-Pro:codes jjang$ ./main
function1
function2
jjang-ui-MacBook-Pro:codes jjang$
```

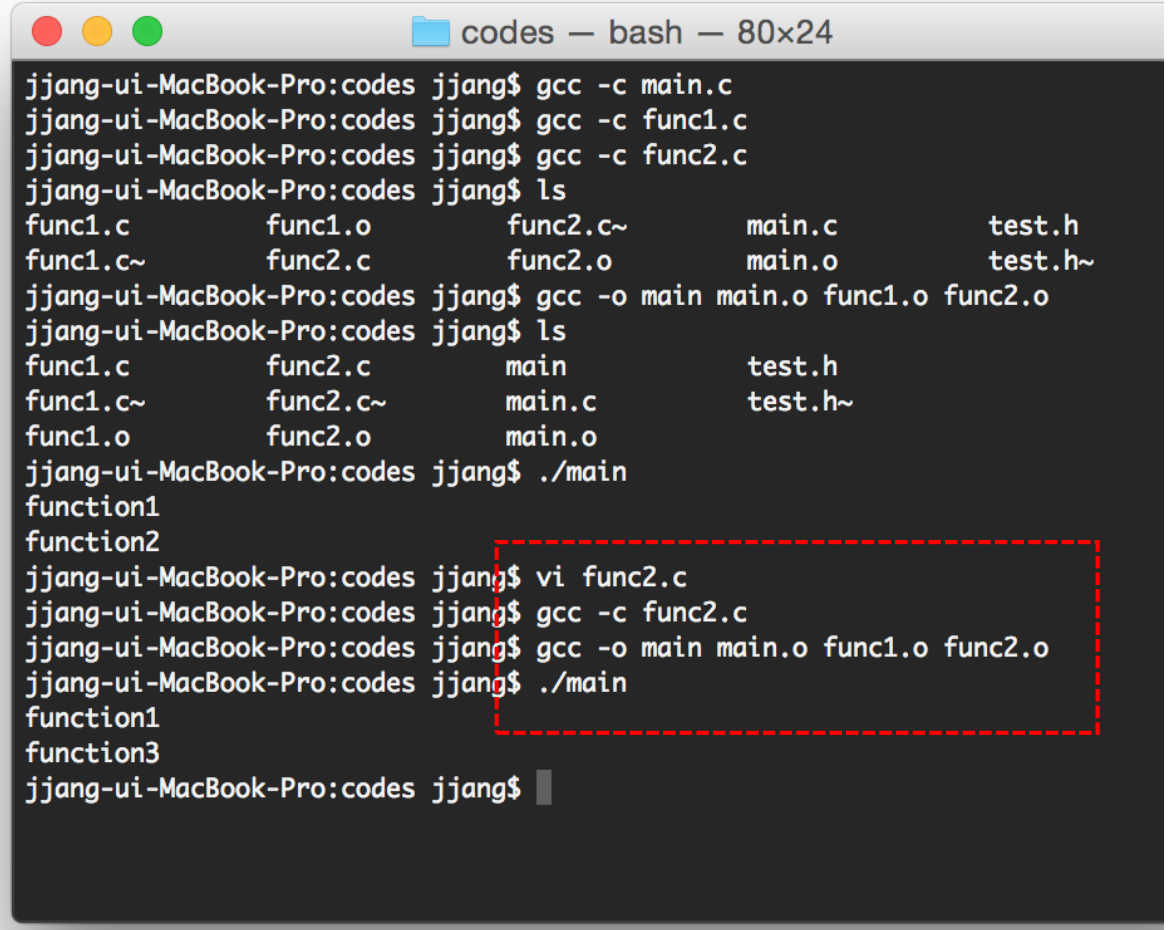
$ gcc -o filename filename(.c) filename(.c) filename(.c)
- execute program

How to use gcc options (-c)



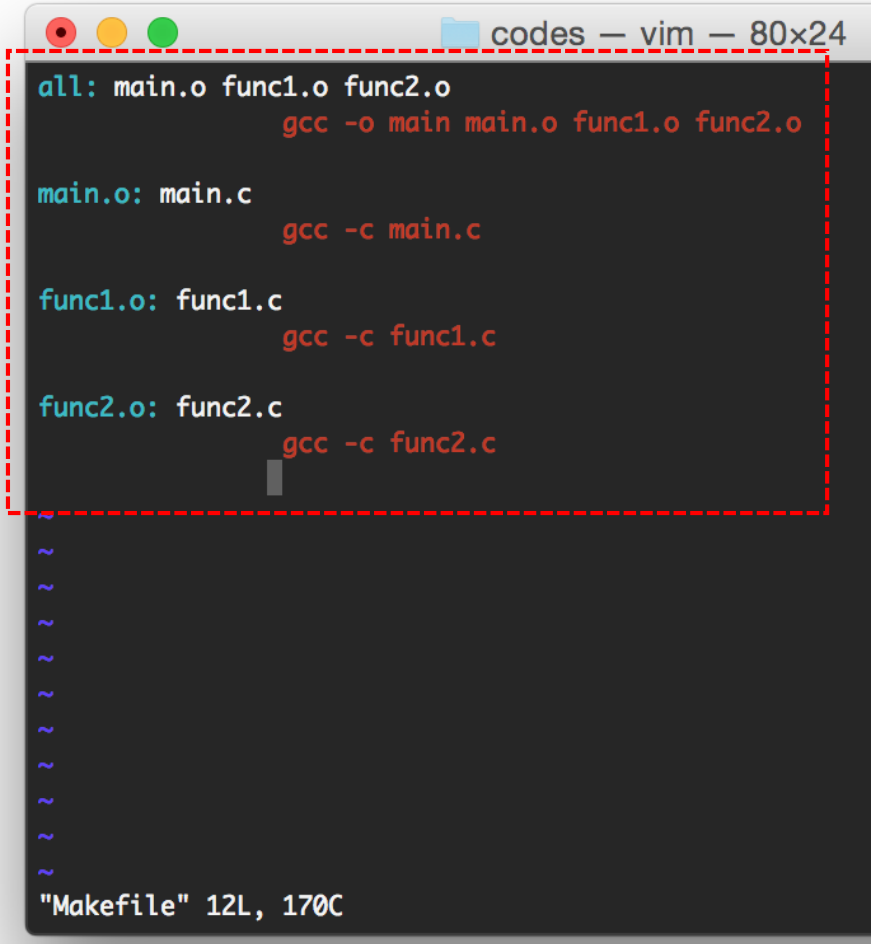
$ gcc -c filename(.c) – create object file

How to use gcc options



$ gcc -c filename(.c) – create object file

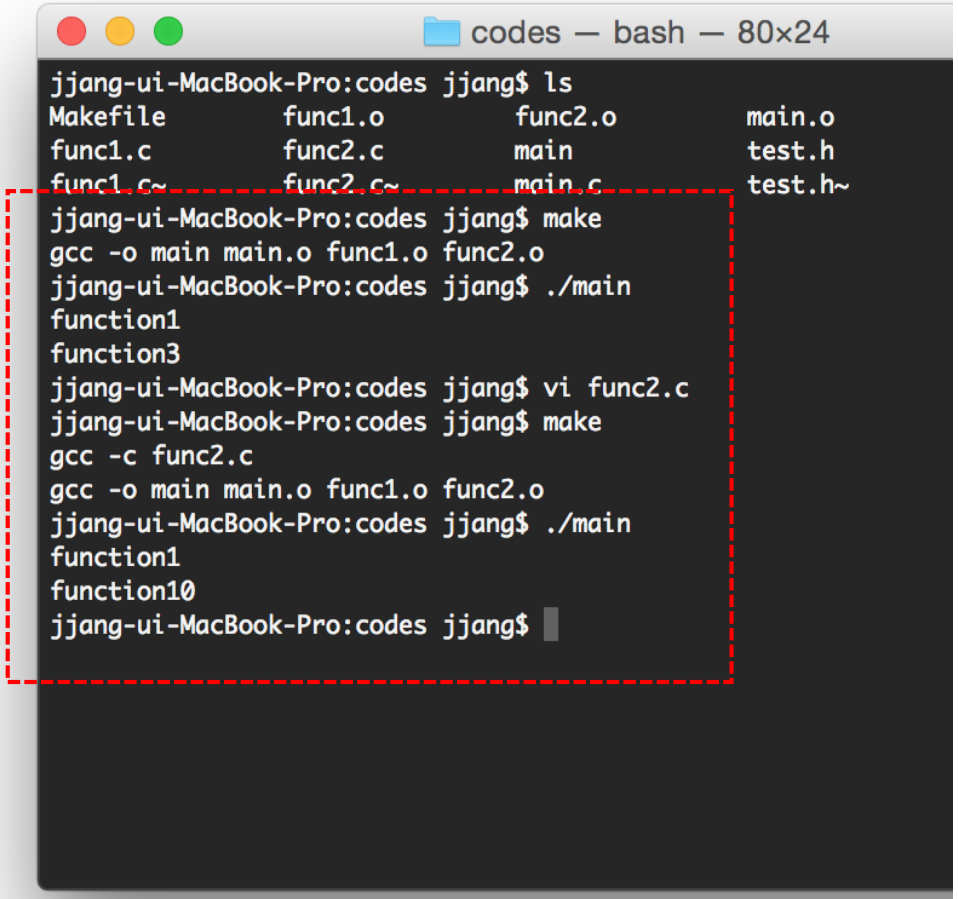
Create a Makefile



$ vi Makefile

Reference:
http://powergi.tistory.com/entry/%ED%8E%8C-Makefile%EC%9D%84-%EB%A7%8C%EB%93%A4%EC%96%B4%EB%B3%B4%EC%9E%90-1

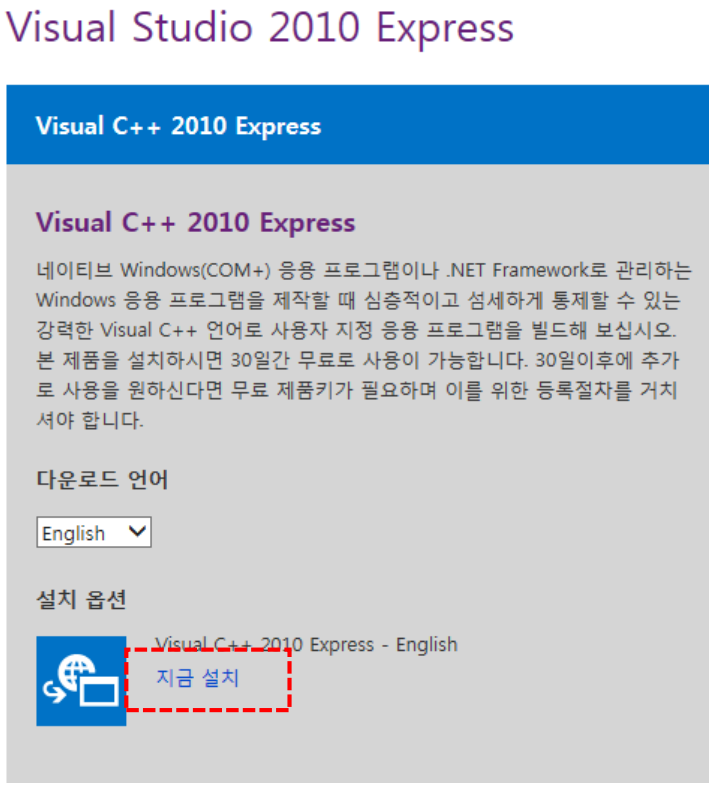
How to use the Makefile



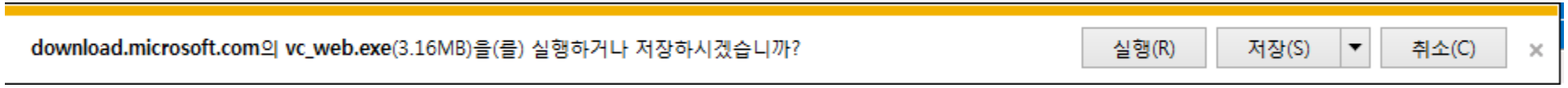
$ make or make all – run makefile

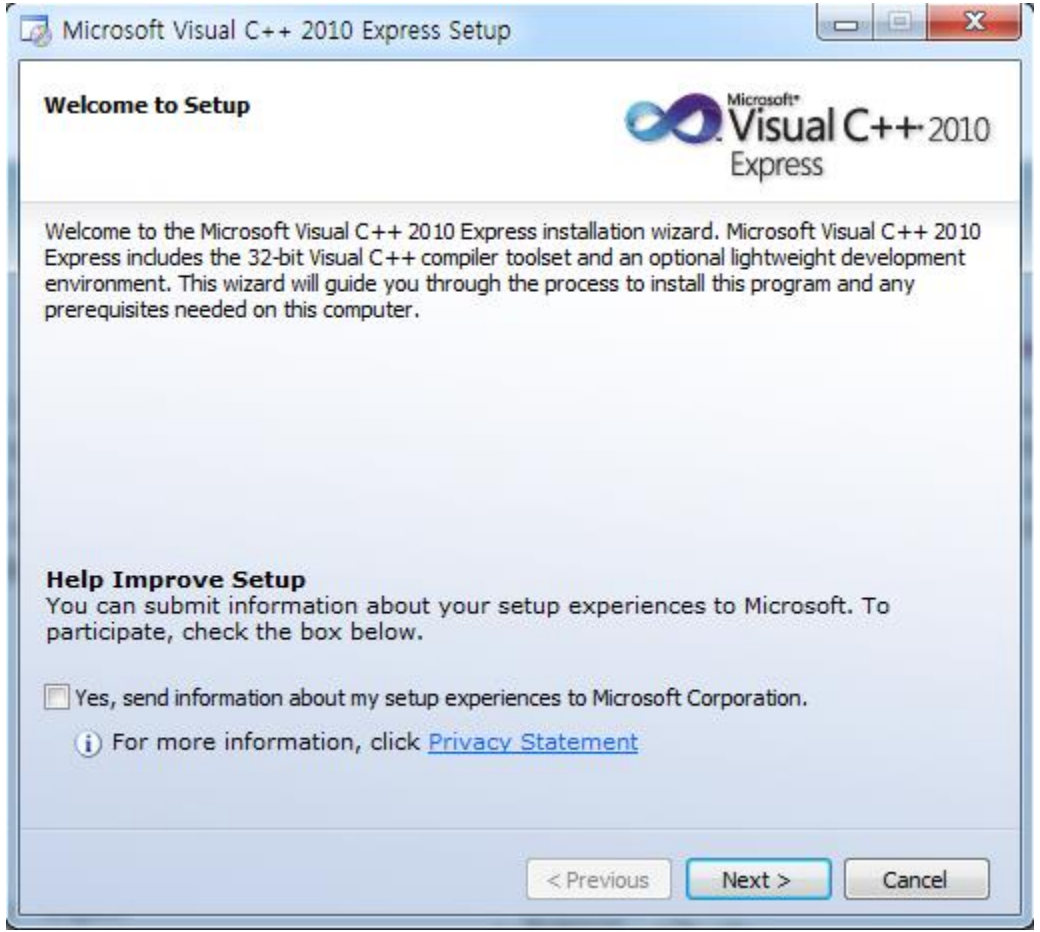
How to use Visual Studio

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



How to use Visual Studio





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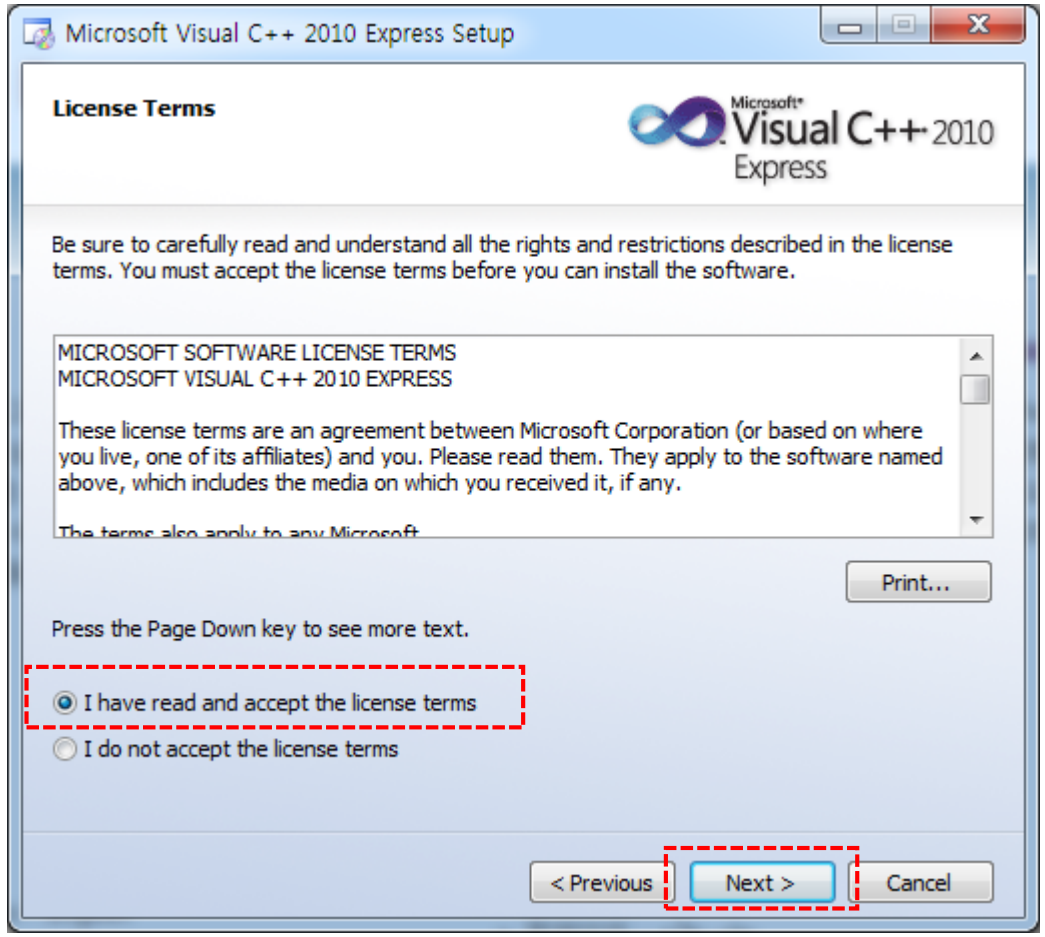
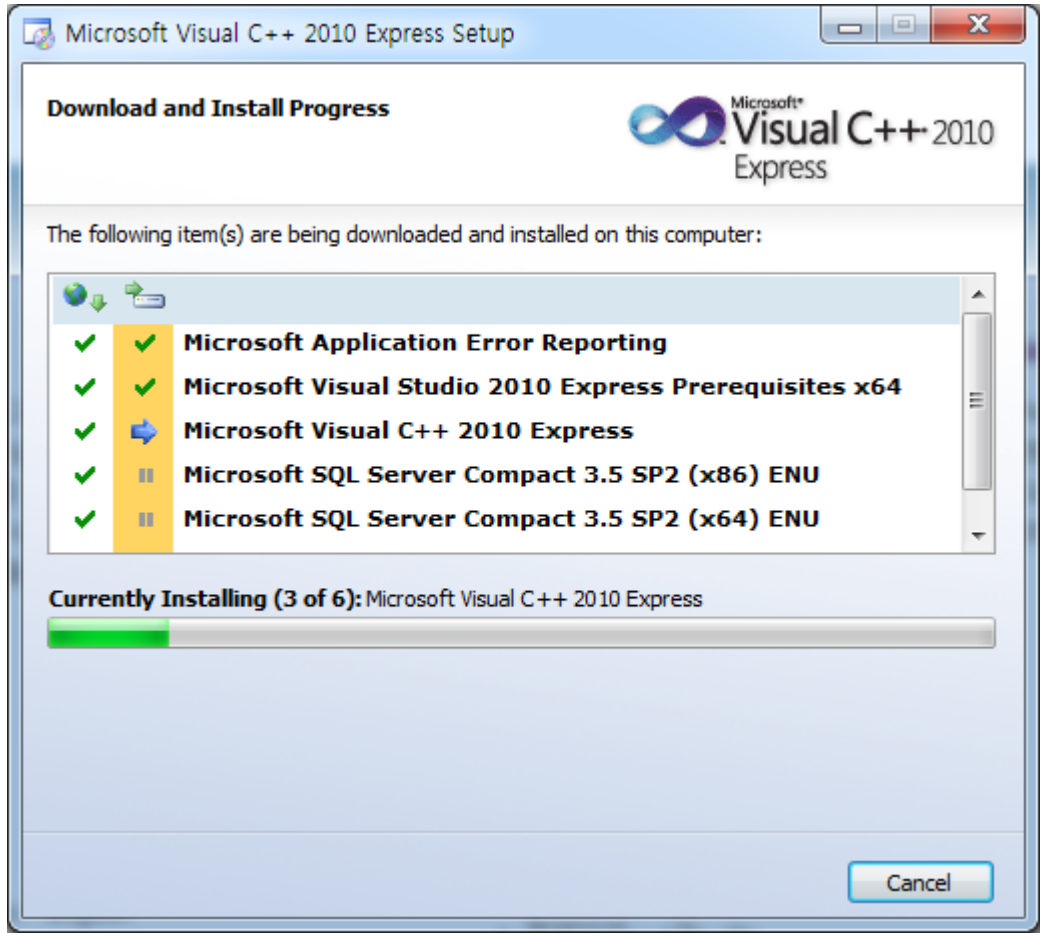
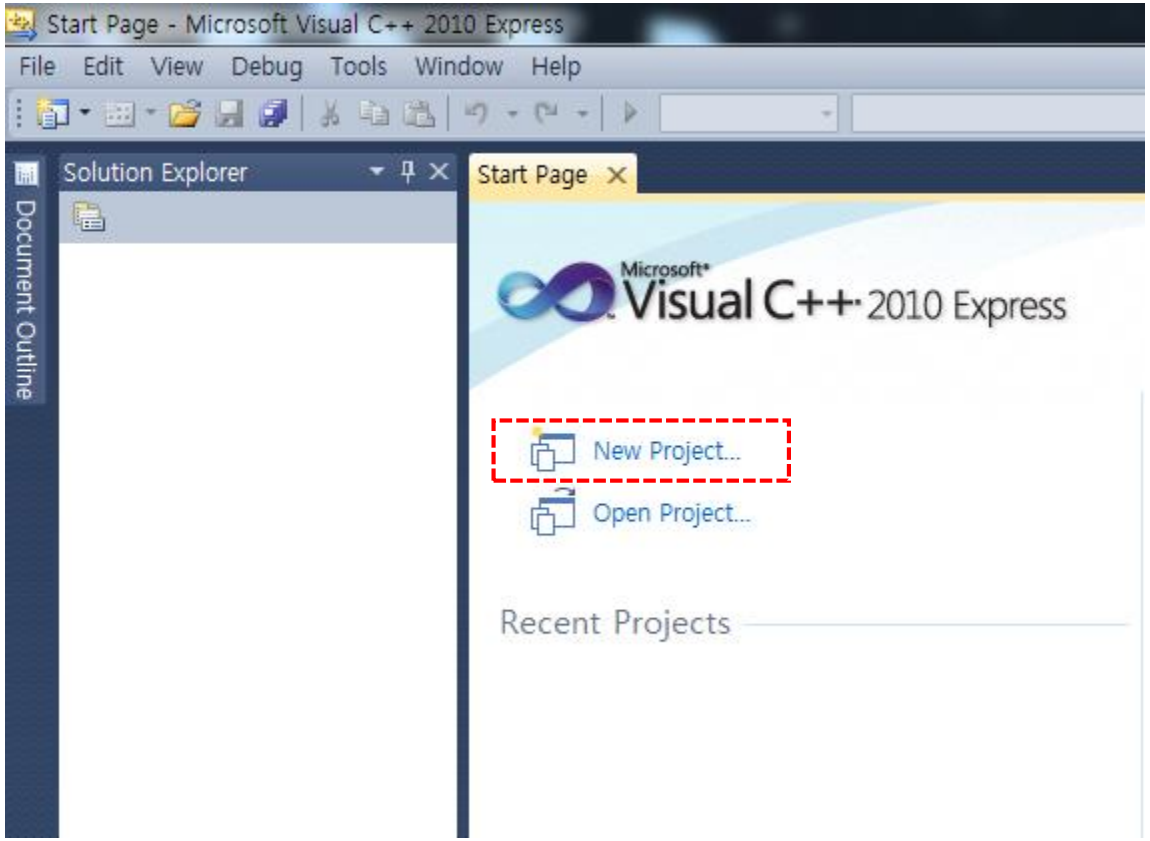


How to use Visual Studio



How to use Visual Studio



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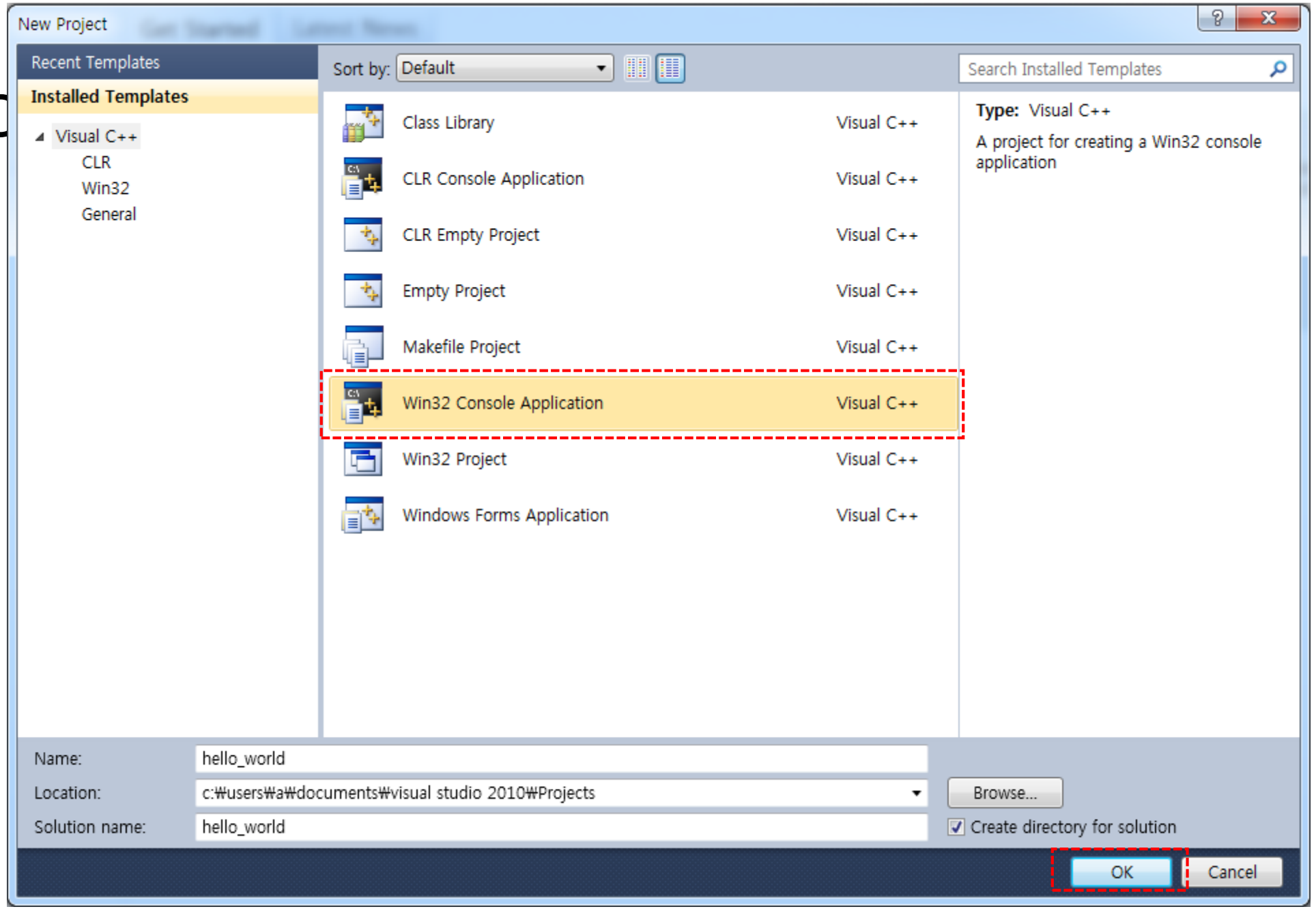
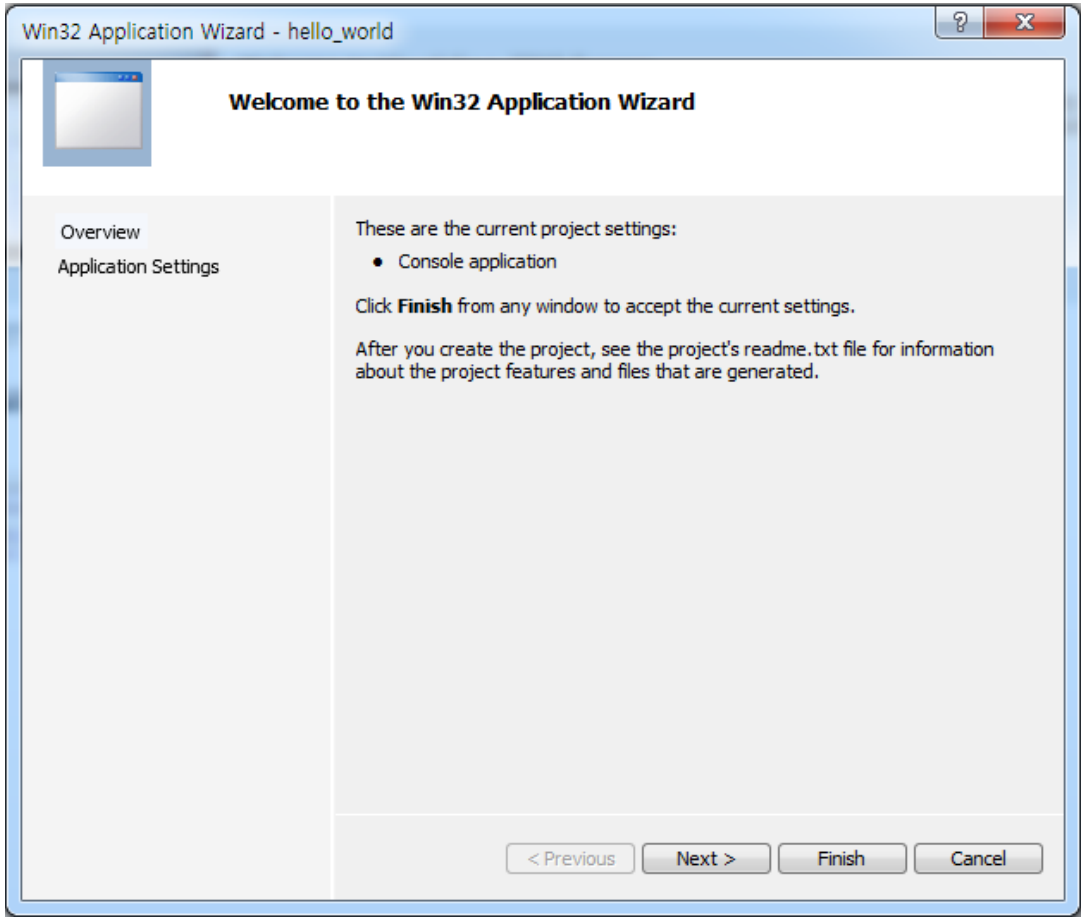
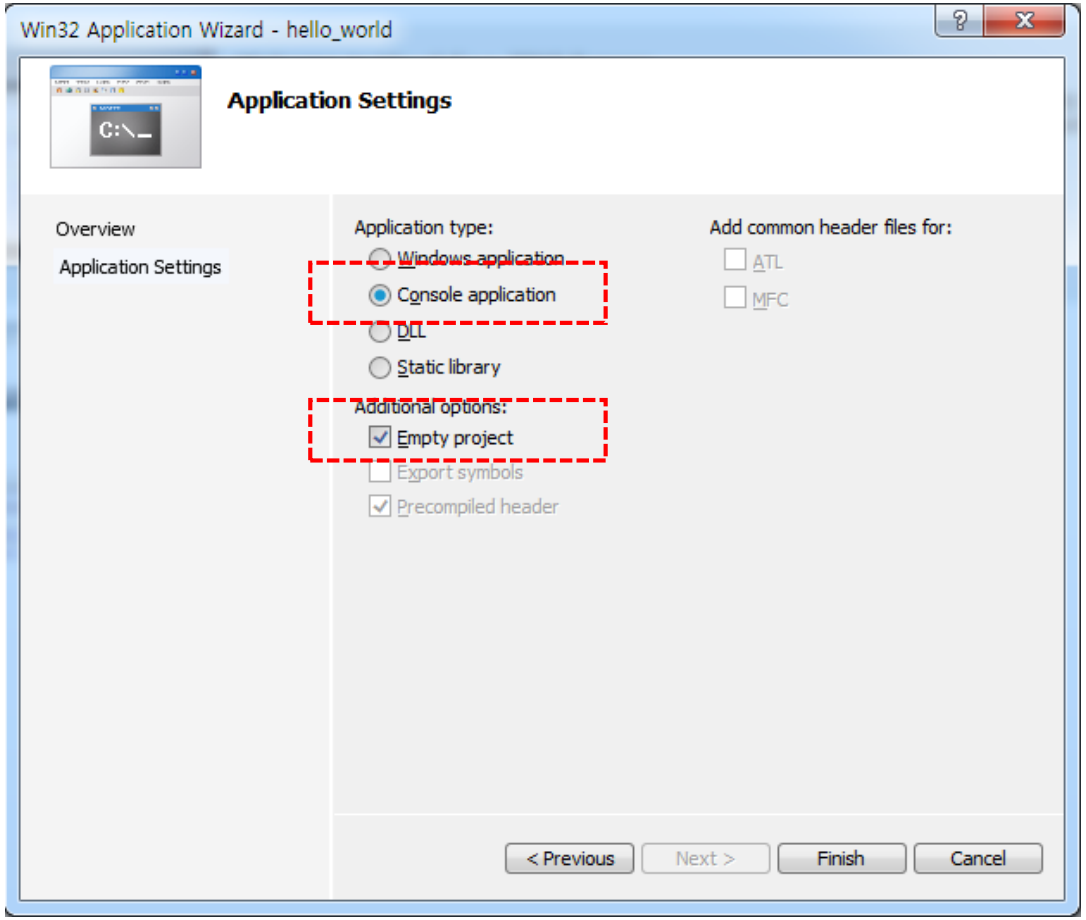

New Project
Recent Templates
Installed Templates
Visual C++
CLR
Win32
General
Sort by: Default
Search Installed Templates
Class Library Visual C++
CLR Console Application Visual C++
CLR Empty Project Visual C++
Empty Project Visual C++
Makefile Project Visual C++
Win32 Console Application Visual C++
Win32 Project Visual C++
Windows Forms Application Visual C++
Type: Visual C++
A project for creating a Win32 console application
Name: hello_world
Location: c:¥users¥a¥documents¥visual studio 2010¥Projects
Browse...
Solution name: hello_world
Create directory for solution
OK
Cancel

How to use Visual Studio





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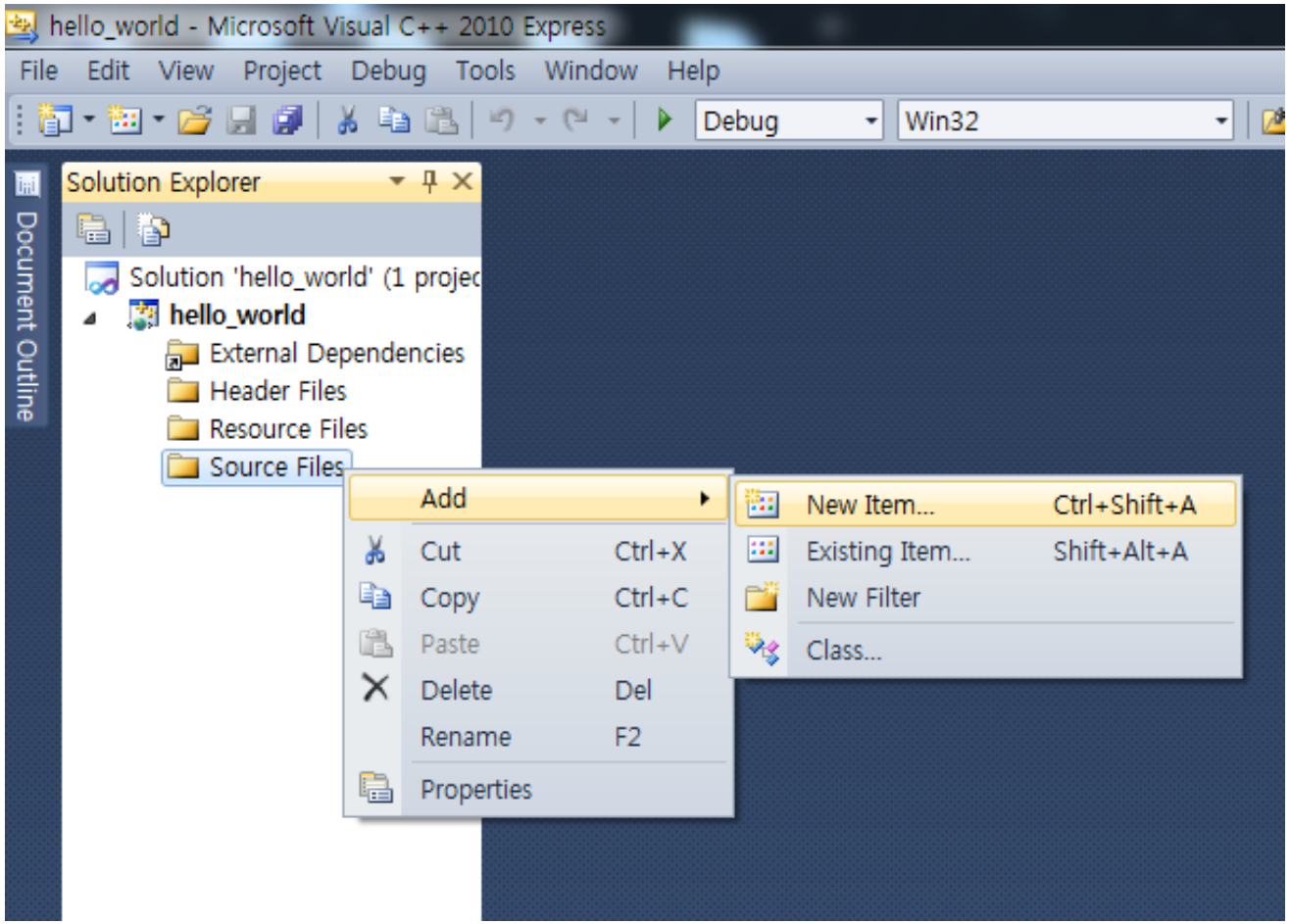

How to use Visual Studio