# Embedded computing for scientific and industrial imaging applications

S/W Requirements & preparation

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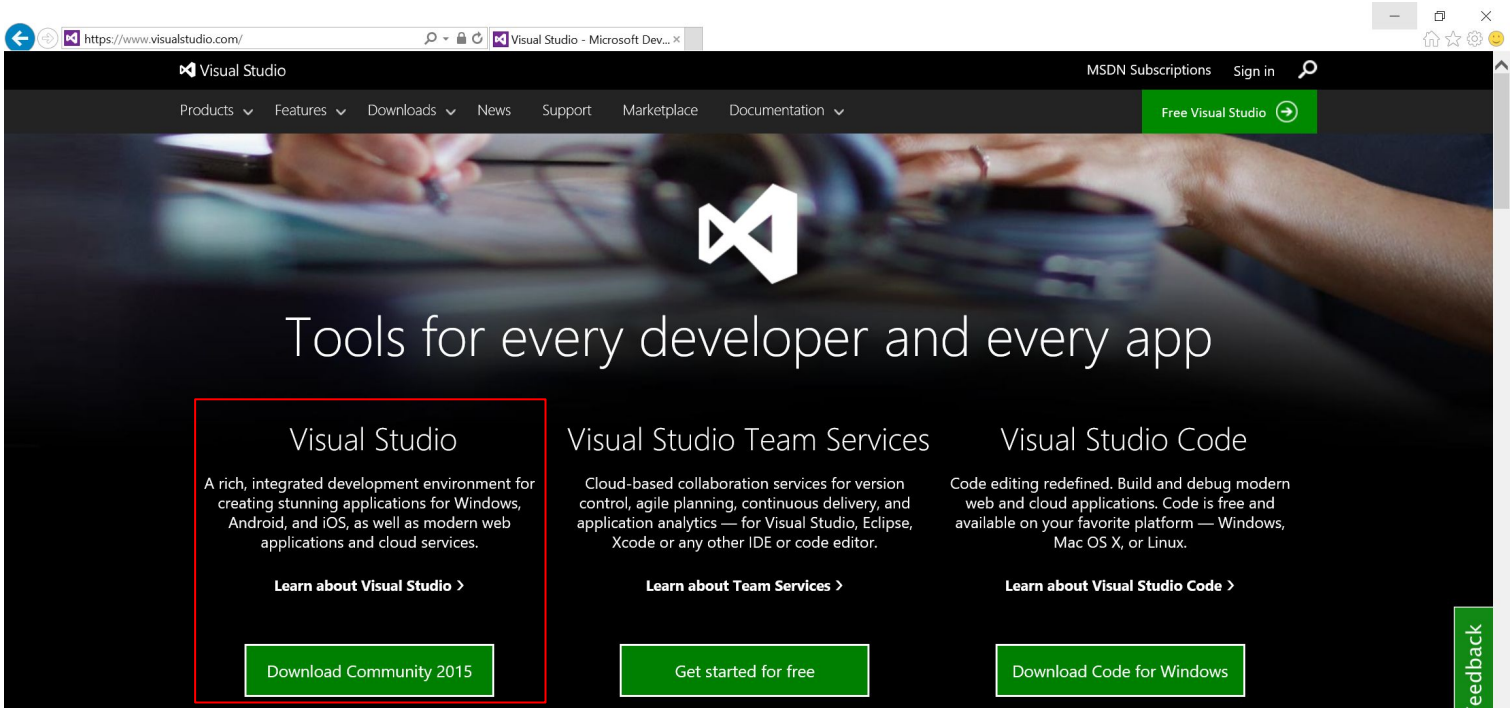
# Requirements and recommendations

- Requirements
  - Git
  - Any C compiler
  - GitHub account
- Recommendations
  - Microsoft Windows 10
  - MS Visual Studio 2015 Community
  - Git for Windows

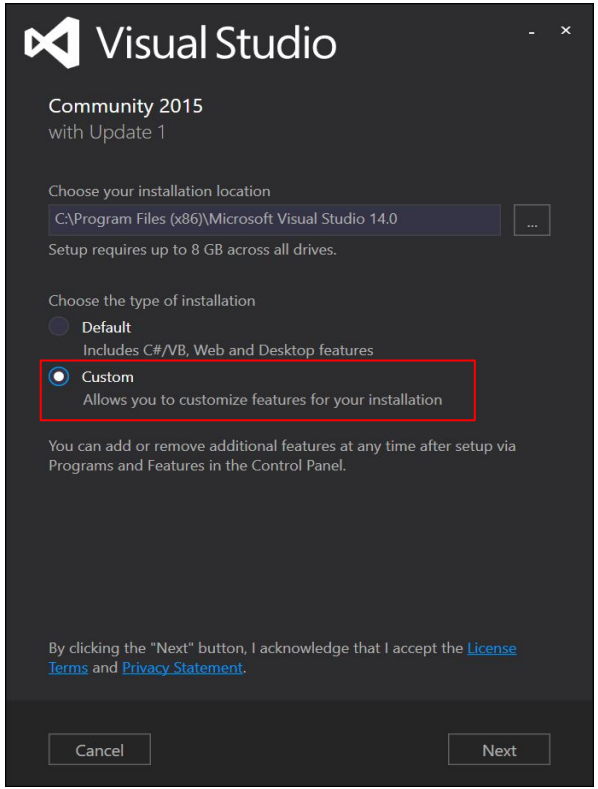
Note : Linux is often required for embedded computing, but learning linux is not part of this class

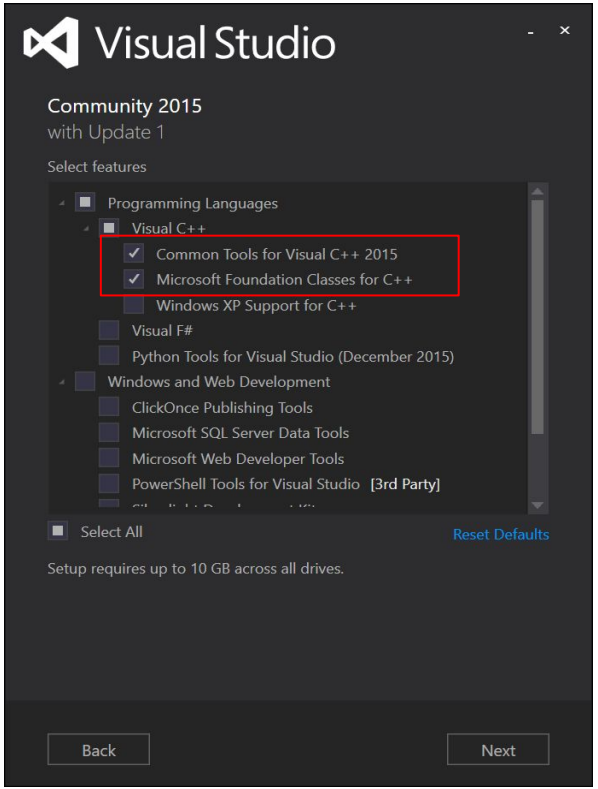
# Visual Studio Community 2015

https://www.visualstudio.com/, Visual Studio Community 2015 with Update 3



# Installation of Visual Studio Community 2015

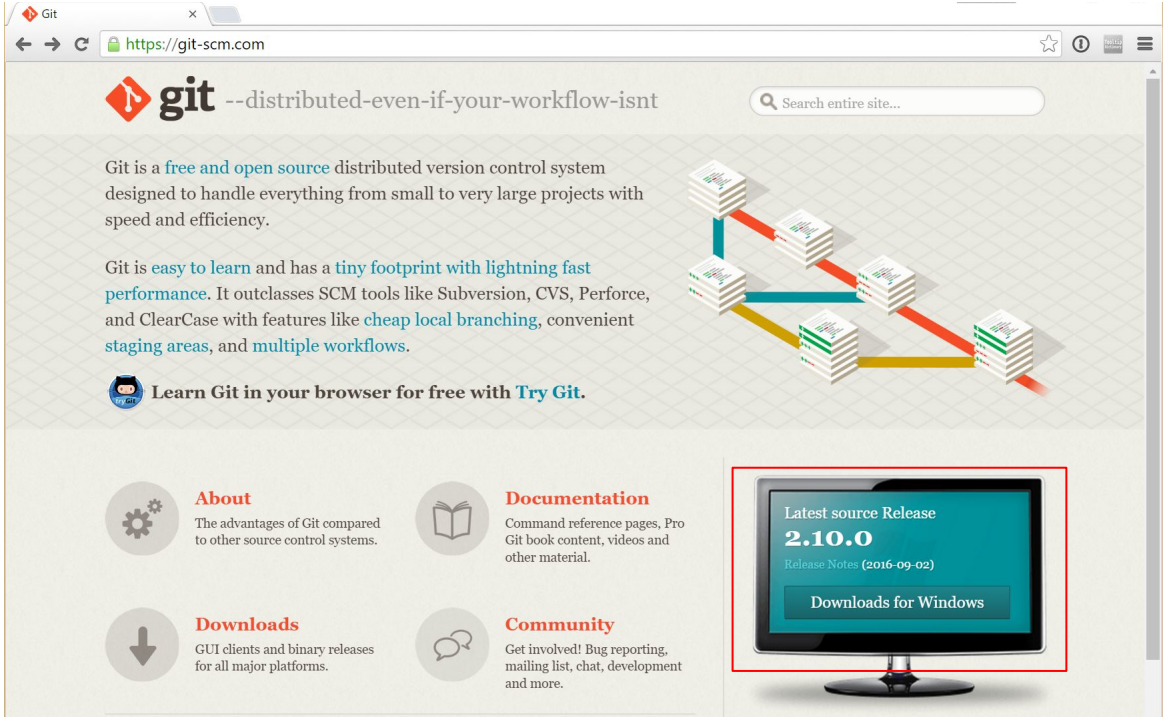


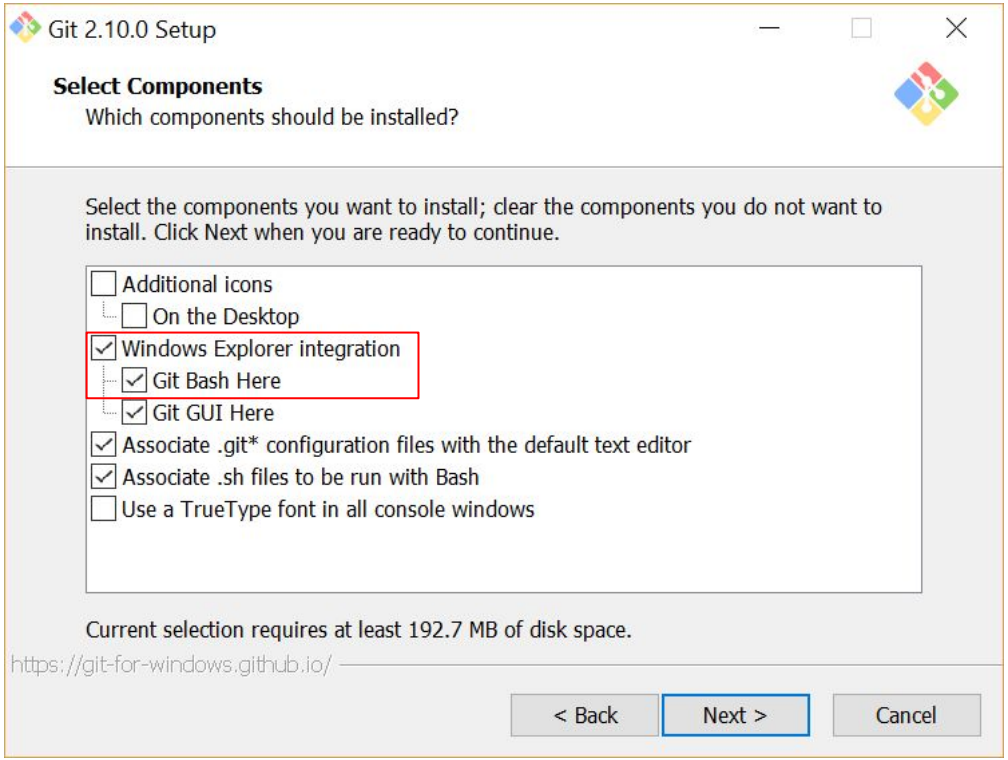
# Git for Windows

Download Git for Windows

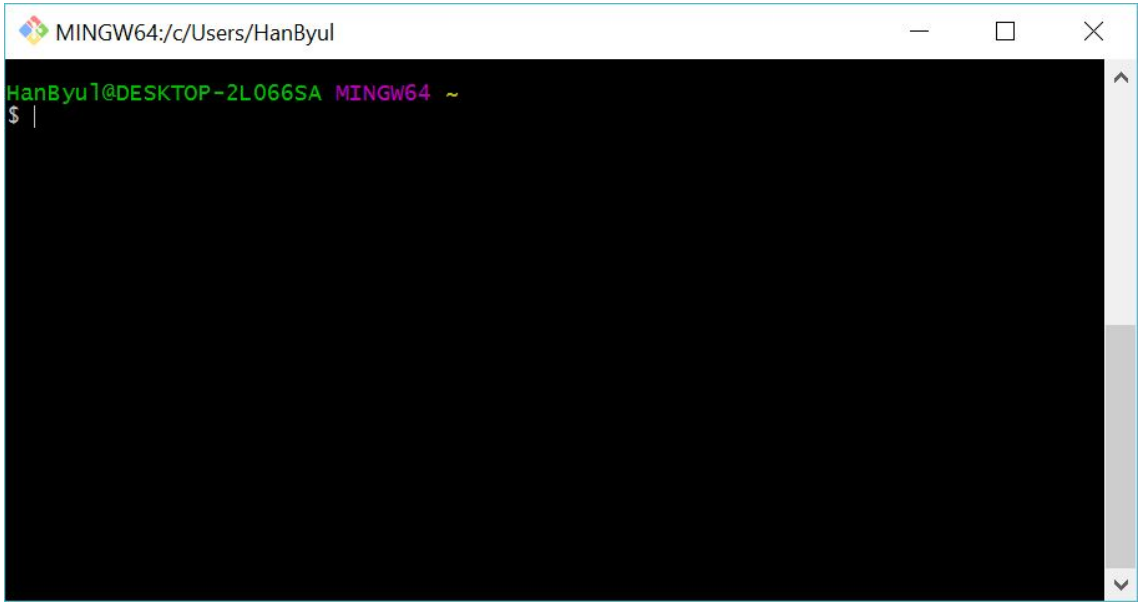
Git-2.10.0-64-bit.exe
(Sep 4, 2016)



# Installation of Git for Windows

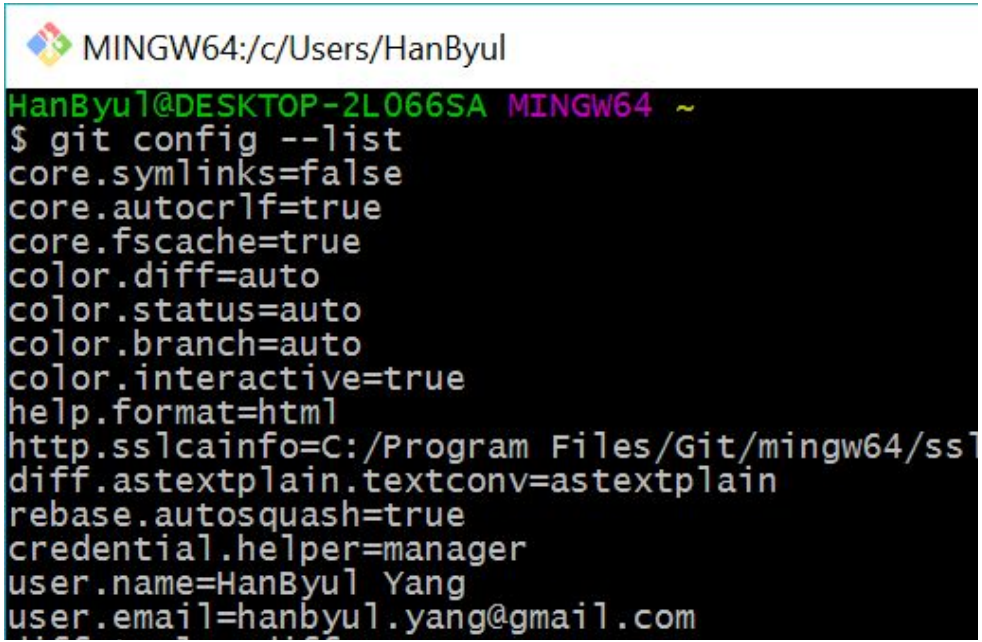


# Git Bash

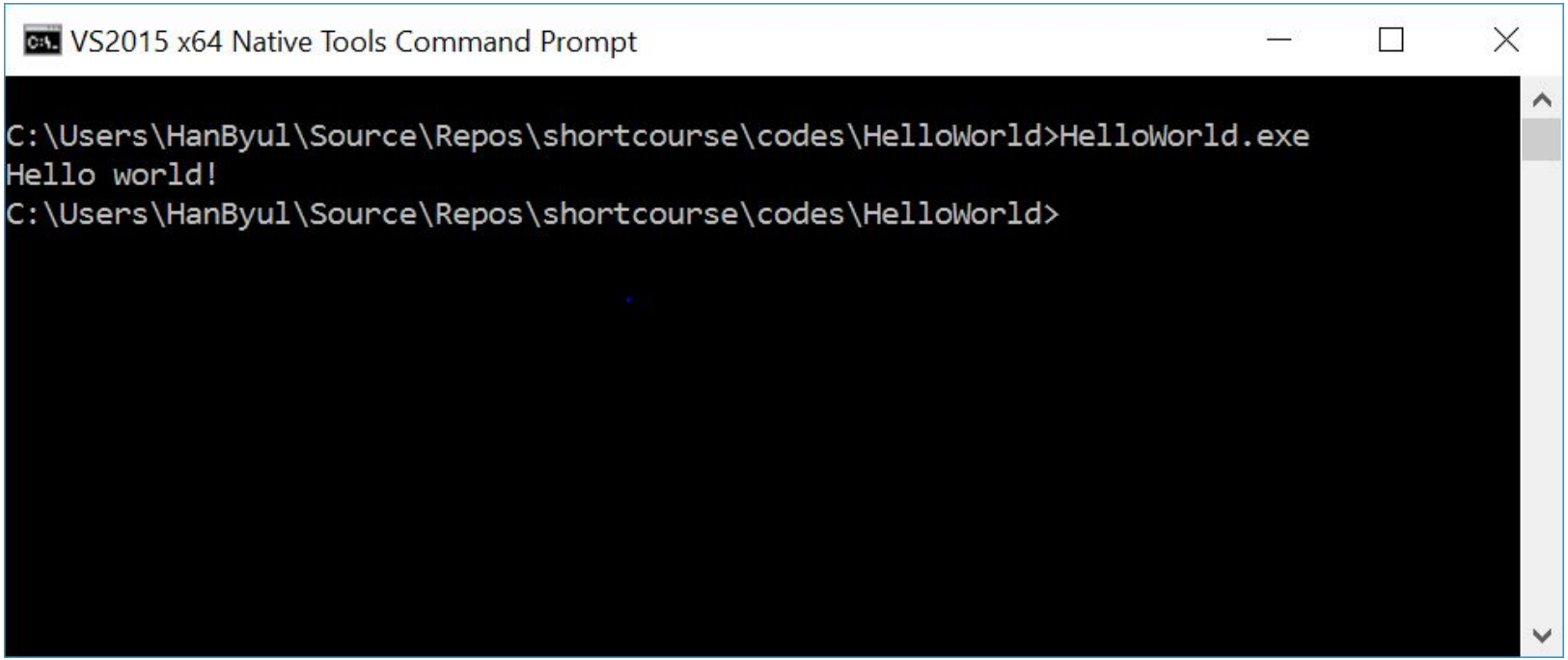


# Git configuration

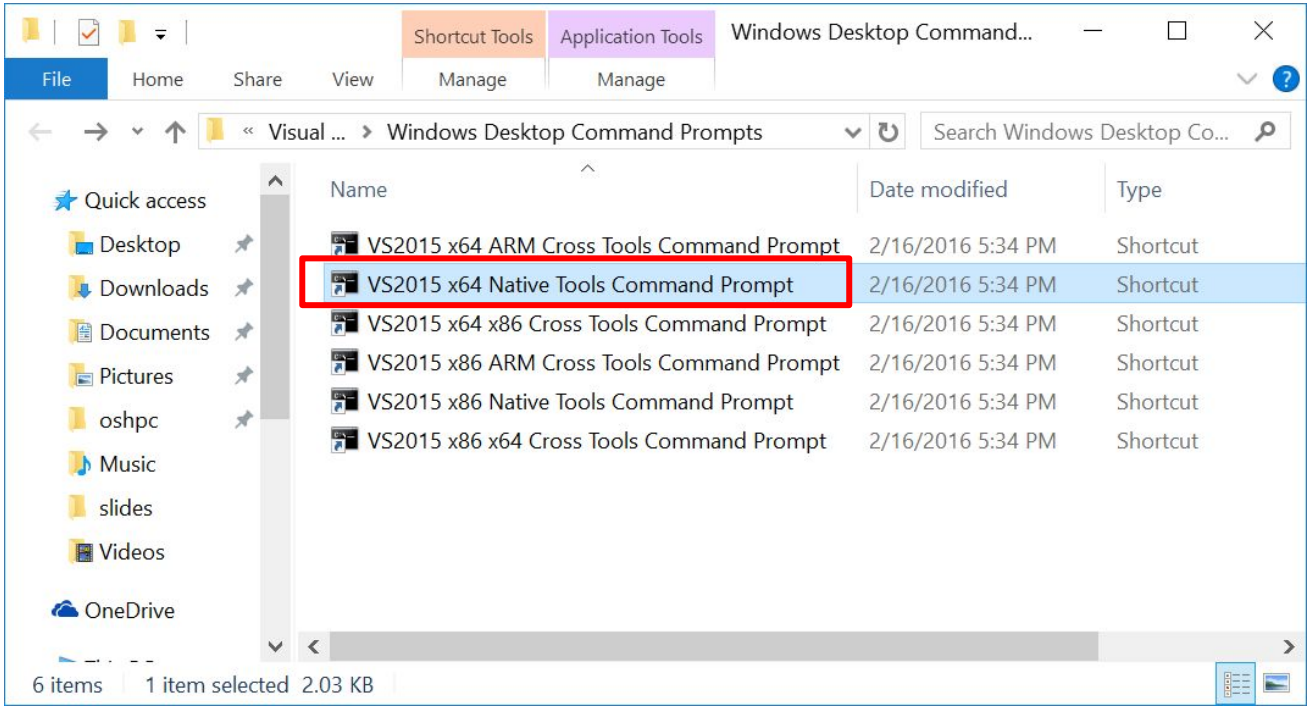
```
$ git config --global user.name "name"

$ git config --global user.email "email"

$ git config --list
```



# Demo : Hello World!



# build environment



# cl.exe

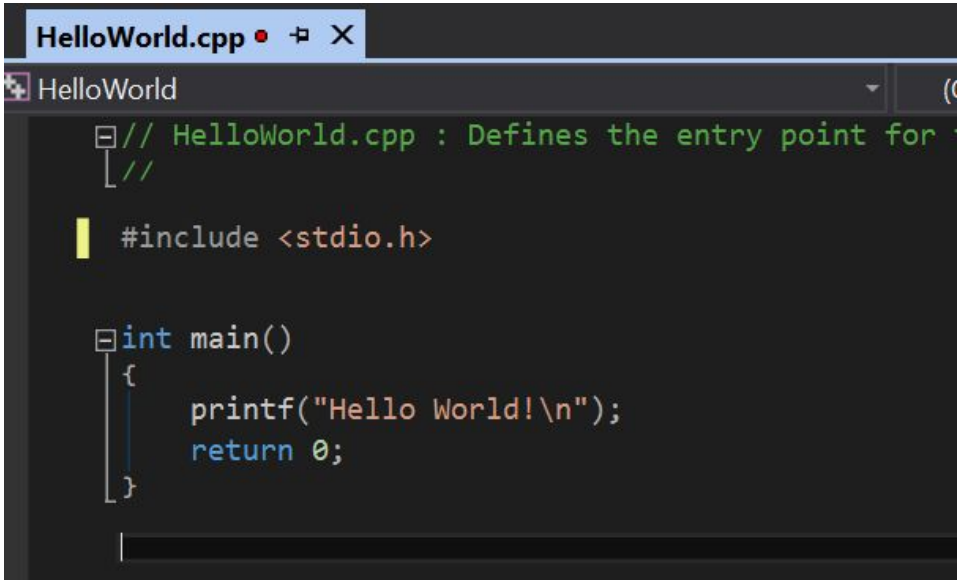
Microsoft (R) C/C++ Optimizing Compiler Version 19.00.23506

C:\Program Files (x86)\Microsoft Visual Studio 14.0\VC\bin\cl.exe

usage: cl [ option... ] filename... [ /link linkoption... ]

ex) cl.exe helloworld.c

# hello world


HelloWorld.cpp
HelloWorld
// HelloWorld.cpp : Defines the entry point for
//
#include <stdio.h>
int main()
{
printf("Hello World!\n");
return 0;
}