LAB2
Setting up C++ Programming Environment on Windows

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Install MinGW GCC

- Install MinGW GCC

  - Official website: http://www.mingw.org/

  - Direct download:
    http://sourceforge.net/projects/mingw/files/latest/download?source=files

- Install at least these packages

  - mingw-developer-toolkit

  - mingw32-base

  - mingw32-gcc-g++

  - msys-base

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- **Set environment variables**

  - Add *MINGW_HOME=C:\MinGW* (the path of your MinGW installation)
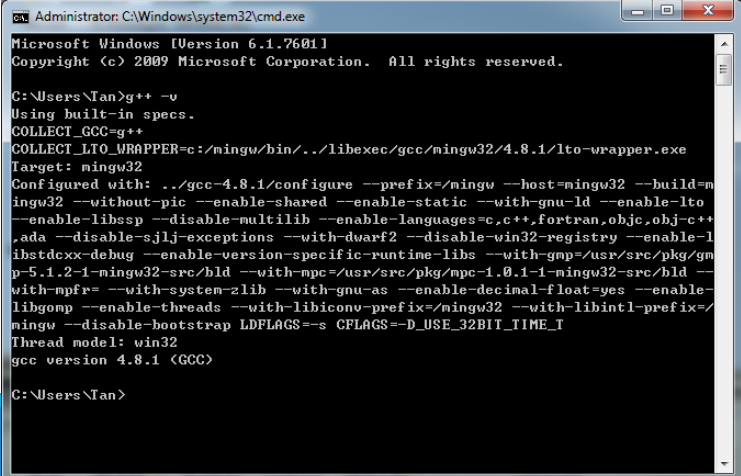
  - Append to Path=%SystemRoot%\system32;%SystemRoot%;%SystemRoot%\System32\Wbem;%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\;%JAVA_HOME%\;%MINGW_HOME%\bin

  - Execute set Path . in CMD to apply the setting (or you can just reboot the computer)

- **Test whether it works**

  - Execute g++ -v in CMD

Install Eclipse with CDT

- Install Eclipse with C/C++ Development Tool (CDT)

  - Link: http://www.eclipse.org/downloads/

  Eclipse IDE for C/C++ Developers
  175 MB   379,831 DOWNLOADS
  An IDE for C/C++ developers with Mylyn integration.
  Windows
  32 bit | 64 bit

  - Extract to anywhere you like (e.g. C:\eclipse)

  - Run from eclipse.exe

Install Emacs for Windows

- Install Emacs

  - Official website: https://www.gnu.org/software/emacs/

  - Direct download (22.3): http://ftp.yzu.edu.tw/gnu/emacs/windows/emacs-22.3-bin-i386.zip

- Extract to anywhere you like (e.g. C:\emacs)

- Run from bin/emacs.exe

Useful Resources

- How To Install Eclipse CDT 8.2 and Get Started

  - http://www3.ntu.edu.sg/home/ehchua/programming/howto/EclipseCpp_HowTo.html

- A Guided Tour of Emacs

  - http://www.gnu.org/software/emacs/tour/