LAB2 Setting up C++ Programming Environment on Windows

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Install MinGW GCC

- Install MinGW GCC
 - Official website: <u>http://www.mingw.org/</u>
 - Direct download:

http://sourceforge.net/projects/mingw/files/latest/download?source=fil es

- Install at least these packages
 - mingw-developer-toolkit
 - mingw32-base
 - mingw32-gcc-g++
 - msys-base

Install MinGW GCC

- Set environment variables
 - Add MINGW_HOME=C:\MinGW (the path of your MinGW installation)
 - Append to

Path=%SystemRoot%\system32;%SystemRoot%;%SystemRoot%\System3 2\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

Administrator: C:\Wind	ows\system32\cmd.exe		- • ×
Microsoft Windows	[Version 6.1.7601]		~
Copyright (c) 2009	Microsoft Corporation.	All rights reserved.	=
C:\Users\Tan>g++ -	v		
Using built-in spe	CS.		
COLLECT_GCC=g++			
COLLECT_LTO_WRAPPE	R=c:/mingw/bin//libexe	c/gcc/mingw32/4.8.1/lto-wra	pper.exe
Target: mingw32			
Configured with: .	./gcc-4.8.1/configure	prefix=/mingwhost=mingw3	2build=m
ingw32without-p	icenable-sharedena	ble-staticwith-gnu-ld	enable-lto
enable-libssp	disable-multilibenabl	e-languages=c,c++,fortran,o	bjc.obj-c++
,adadisable-sjl	j-exceptionswith-dwar	f2disable-win32-registry	/enable-1
1DStacxx-aebuge	nable-version-specific-r	untime-libswith-gmp=/usr	vsrc/pkg/gm
p-5.1.2-1-mingw32-	src/bluwith-mpt-/usr/	src/pkg/mpc=1.0.1=1=m1ngw32	-src/bia
libromyepable-t	hwardswith-libiconu-v	s chanic decimal float-ye	tl-profix=/
mingwdisable-bo	otstran LDFLAGS=-s CFLAG	S=-D USE 32BIT TIME T	or prority /
Thread model: win3	2		
acc version 4.8.1	(GCC)		
u de la constante de la consta			
C:\Users\Tan>			

Install Eclipse with CDT

- Install Eclipse with C/C++ Development Tool (CDT)
 - Link: <u>http://www.eclipse.org/downloads/</u>



 Eclipse IDE for C/C++ Developers
 Windows

 175 MB
 379,831 DOWNLOADS
 32 bit 64 bit

 An IDE for C/C++ developers with Mylyn integration.
 64 bit

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

Install Emacs for Windows

- Install Emacs
 - Official website: <u>https://www.gnu.org/software/emacs/</u>
 - Direct download (22.3): <u>http://ftp.yzu.edu.tw/gnu/emacs/windows/emacs-22.3-bin-i386.zip</u>
- 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
 - <u>http://www3.ntu.edu.sg/home/ehchua/programming/howto/EclipseCpp_HowTo</u> <u>.html</u>
- A Guided Tour of Emacs
 - <u>http://www.gnu.org/software/emacs/tour/</u>