

Installing Eclipse for C++

There are 4 steps in this file. The first 3 steps are to install 3 components: Java JRE, gcc, and Eclipse. You can skip any of the 3 steps if you've already got the component installed on your system. Step 4 is to configure Eclipse for C++ programming.

1. Download the Java JRE

- Eclipse works with the Java JRE (even if you only want to work with C++ files), so first check whether Java is installed in your system.
- Go to java.com and click on "Do I have Java?"



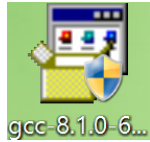
- If it detects that you don't already have Java installed, go back to the page shown above and click the "Free Java Download" button to start downloading the Java installer.
- The download environment will detect the Windows system and the OS version you have, and it will select the correct Java version. At the download window read the text and click on "Agree and Start Download", which will download the installer.



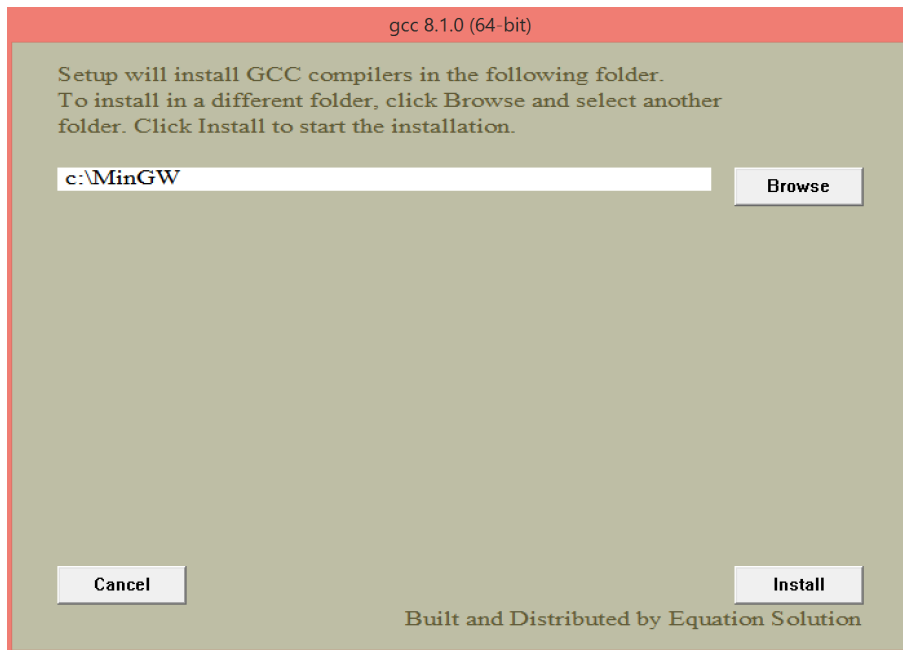
- Click to run the installer, then read the terms and click Install. The install is successful if you see a pop up window with the message "You have successfully installed Java". Click to close the window.

2. Download the gcc compiler

- Go to the equation.com website and scroll to "DOWNLOAD: FOUR LAST RELEASES" and click to download the latest gcc installer version (32-bit or 64-bit) that's appropriate for your system.



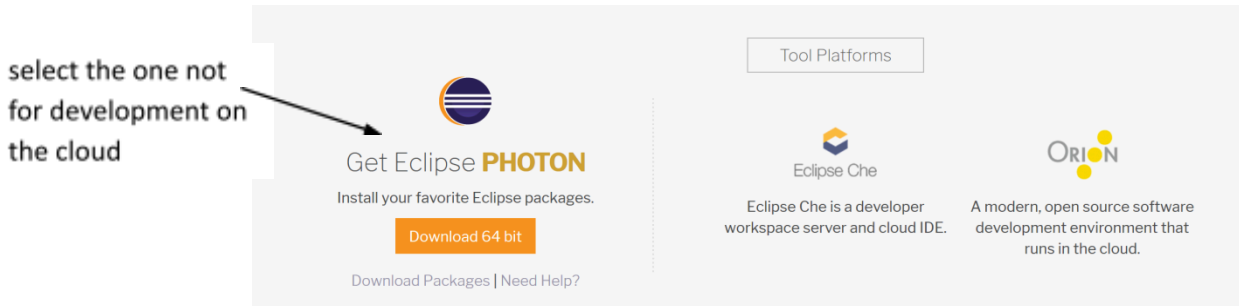
- Click to run the installer and when the licensing agreement window opens, read and click Accept.
- At the next window, choose "C:\MinGW" as the location to install gcc (*remember this location for step 4*) and click "Install".



- The installer will show the progress as it extracts files and installs them. The installer is successful if you see the final window with the message "Congratulations. GCC has been successfully installed." Click "Finish" to close the window.

3. Download Eclipse

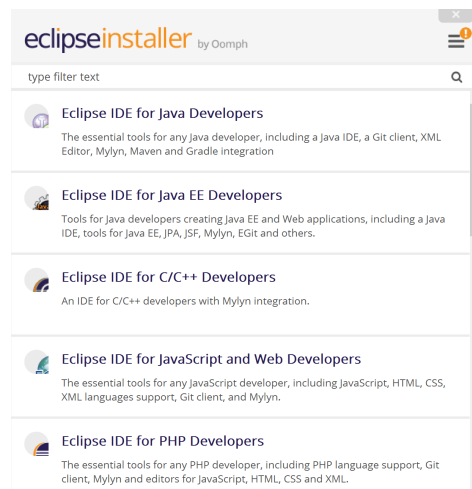
- Go to eclipse.org and click on Download.
- The download environment will detect the system and OS version you have and present you with some options to download, select the one that's not for development on the cloud, then click on Download.



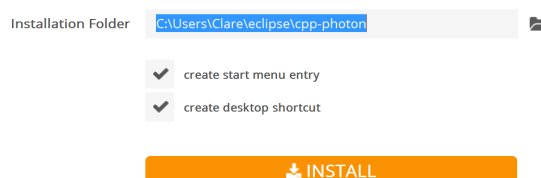
- Click on the installer to start the installation.



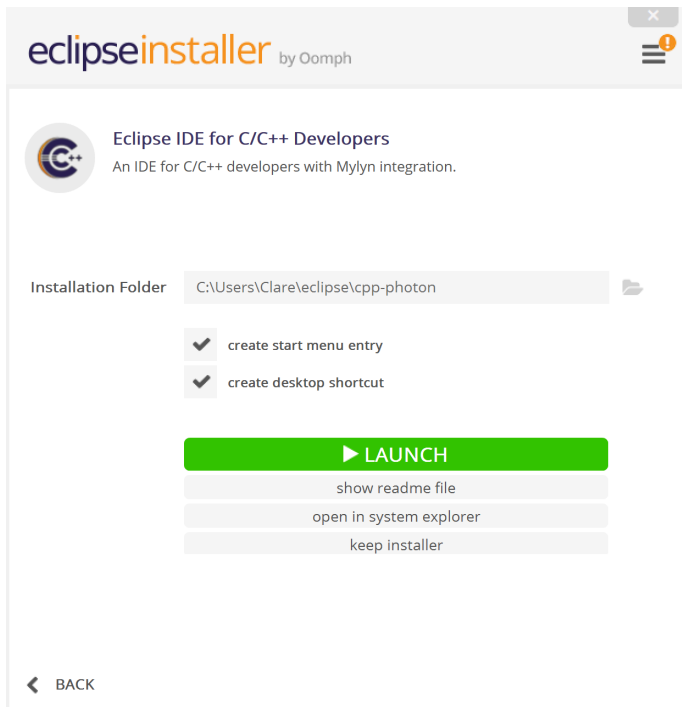
- At the menu for language, choose C/C++



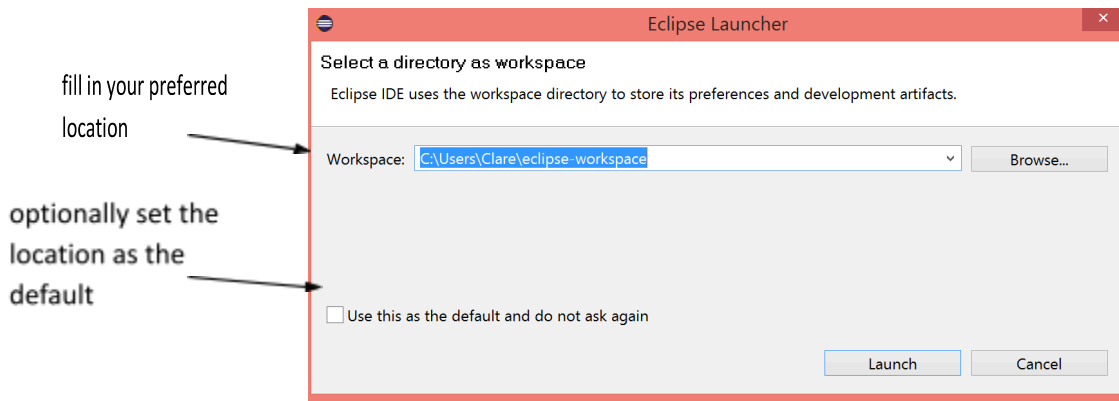
- Then keep the default location for Eclipse and choose whether you want the Eclipse shortcut on your desktop or start menu. Then click Install, read and then click Agree on the licensing terms.



- When the installation is complete, click "Launch" to start Eclipse.

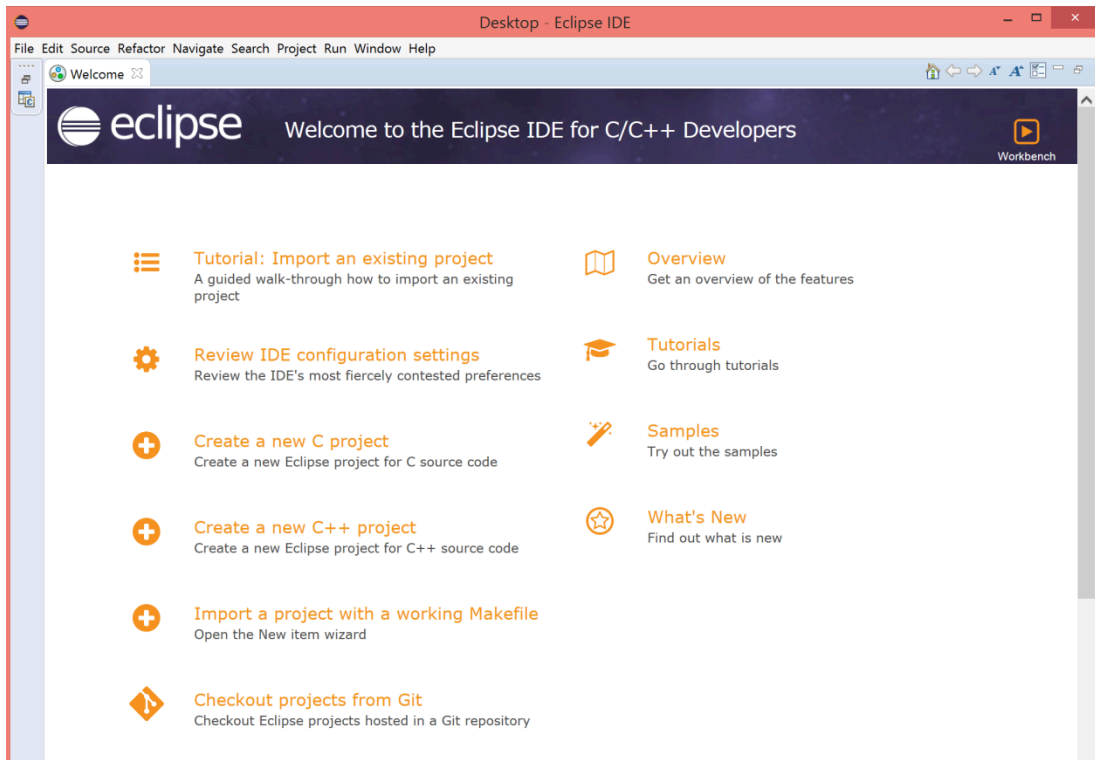


- When launching Eclipse for the first time, you will be asked for the location of your workspace.



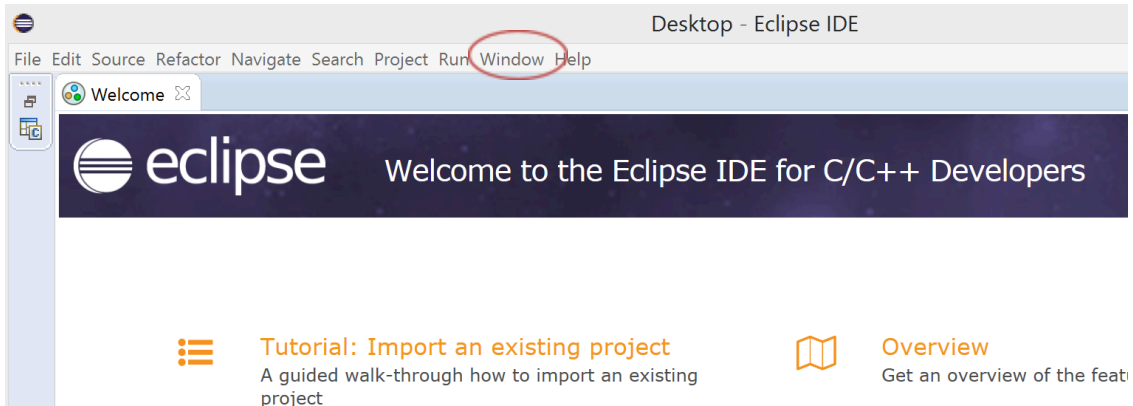
Then click "Launch"

- When you see the following screen, you've installed and launched Eclipse successfully.



4. Configure Eclipse for C++

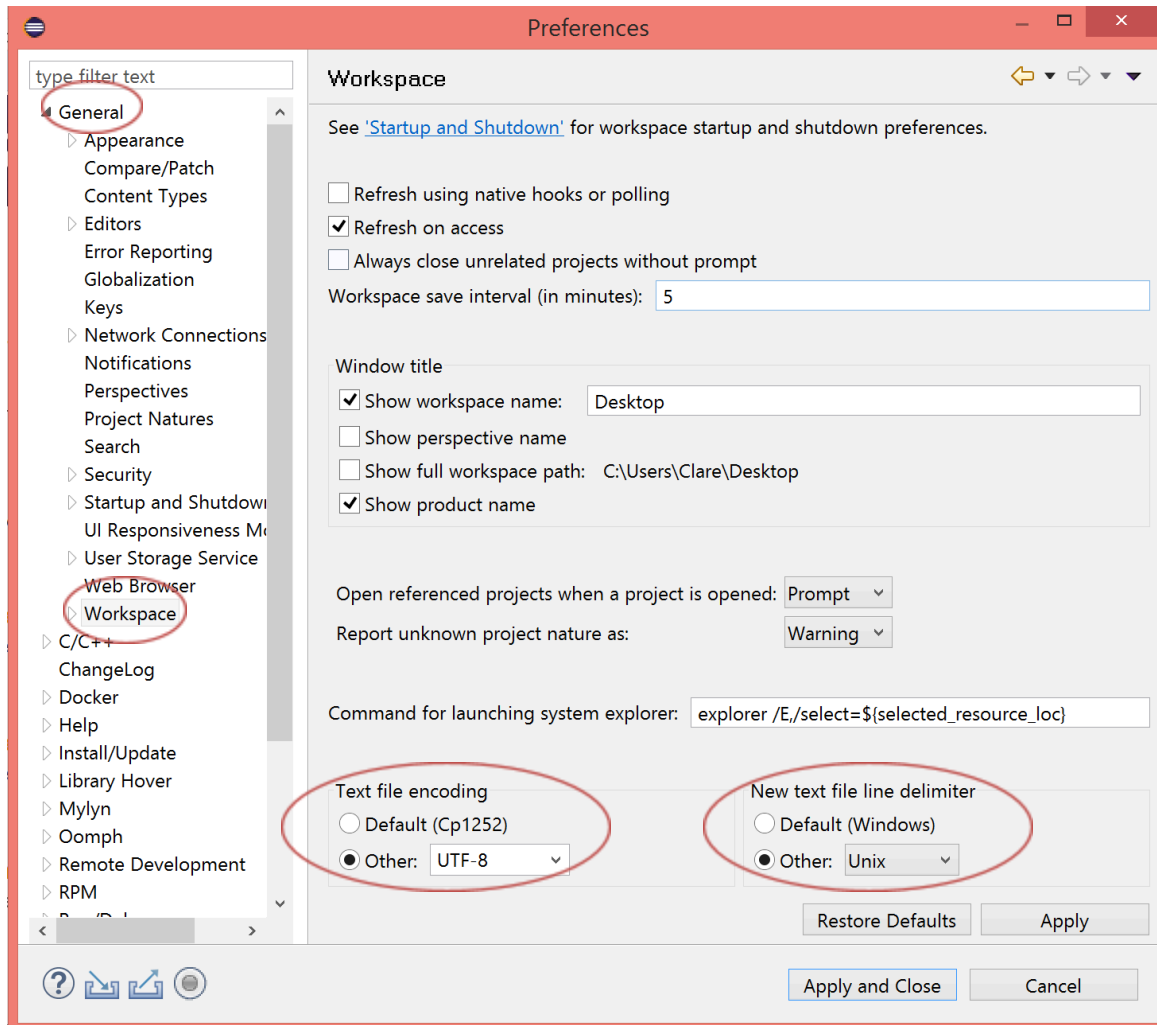
- From the welcome page select the Window pull down menu, then select Preferences.



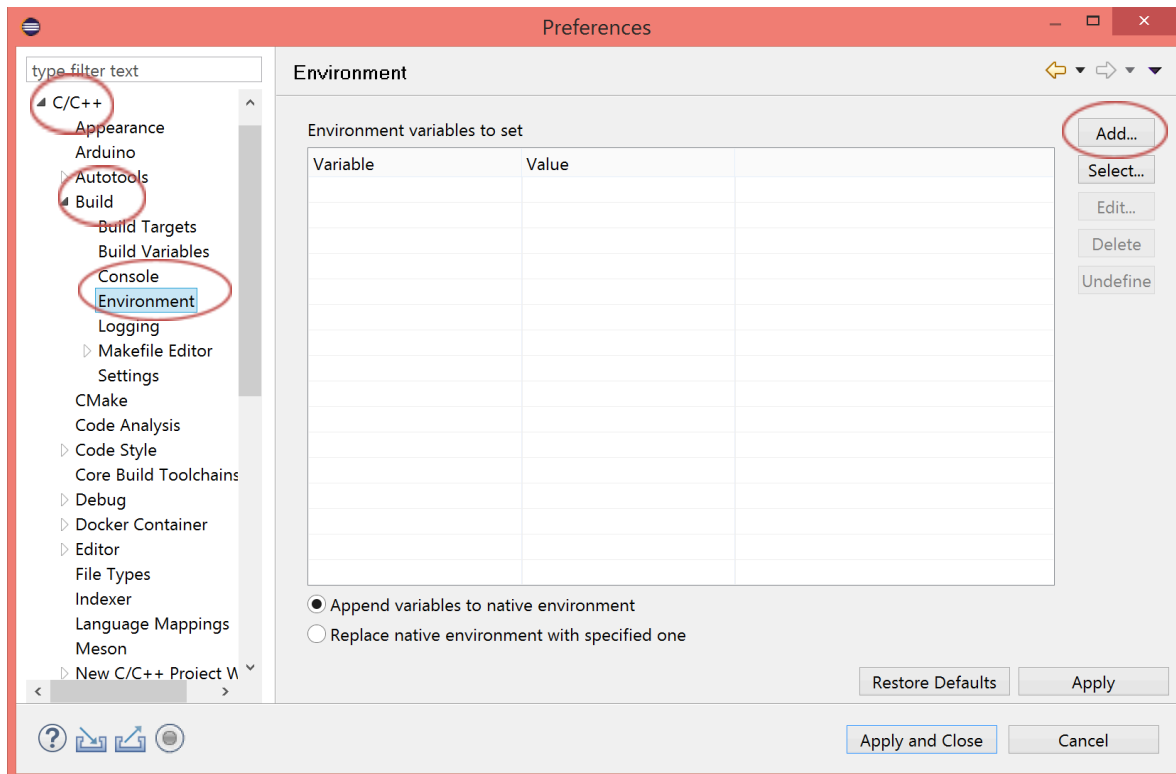
- At the Preferences window, select General, then select Workspace.

At the Workspace window:

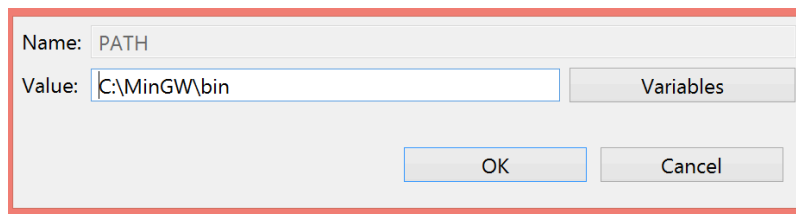
- go to "Test file encoding" and choose "Other" and UTF-8
- go to "New text file line delimiter", select "Other" and then Unix.
- Click "Apply"



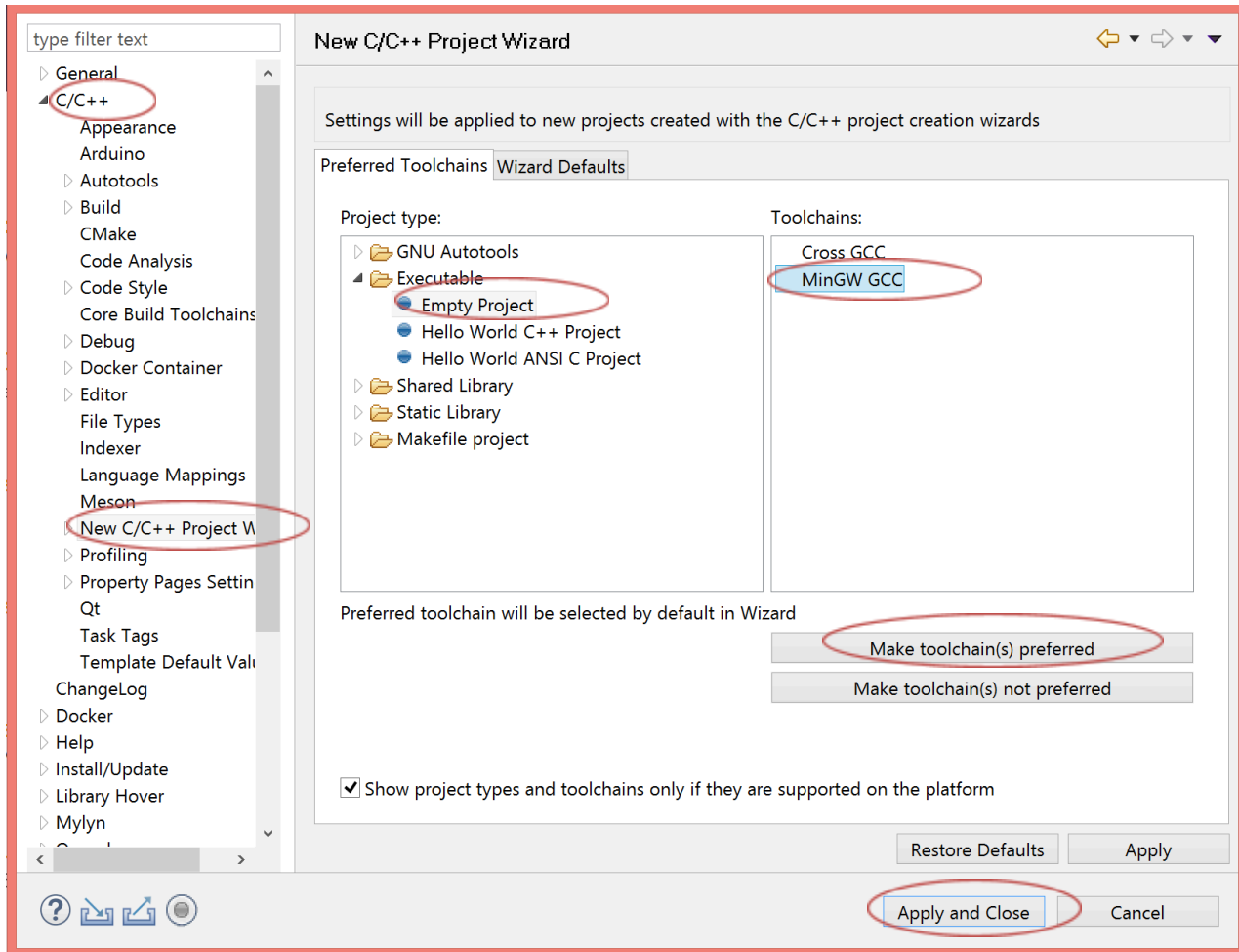
- Back to the same Preferences window, select "C/C++", then select "Build", and then "Environment". At the Environment window, select "Add".



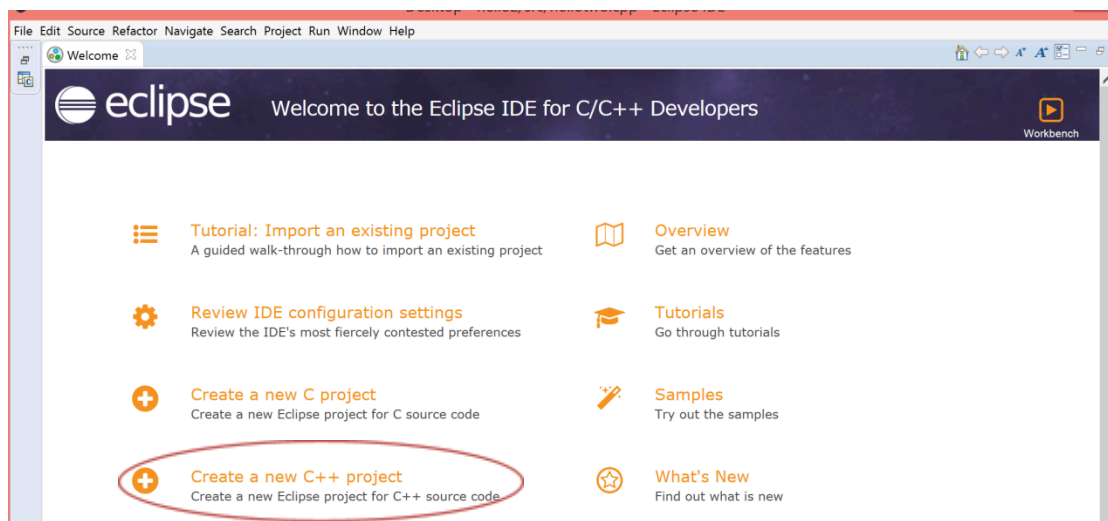
- At the Add window, at the "Name" field type "Path", and at the "Value" field type the location where you told the installer to install gcc in step 2, and end the path with "\bin": C:\MinGW\bin. Then click "OK" and then "Apply".



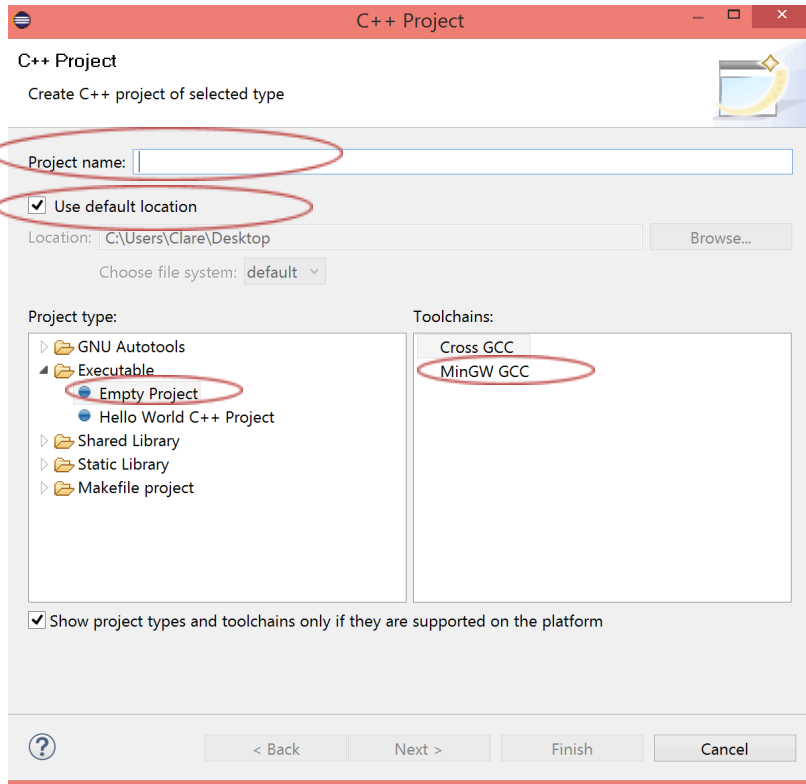
- Back at the Preferences window, select "C/C++" and then "New C/C++ Project Wizard". At the New C/C++ Project Wizard window, select "Empty Project" and select the "MinGW GCC" that you added in the step above. Then click "Make toolchain(s) preferred" and then click "Apply and Close"



- Back at the Welcome window, you can now click on Create New C/C++ Project



- At the project creation window, select Empty Project and select MinGW. Give the project a name and confirm the location of the project, which is in the default location that you selected when you first launched Eclipse above. Then click "Finish"



- Back at the Welcome page, select "Workbench" to get to the project workspace. You are now ready to create a C++ source file in the project.

