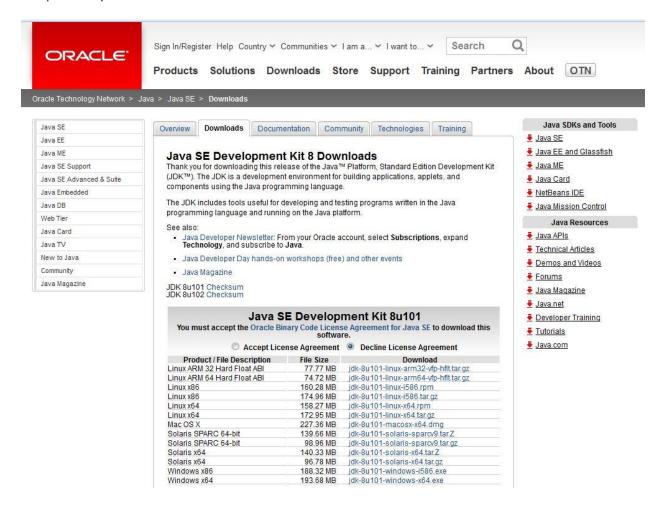
The recommended IDE for this course is Eclipse.

Here are some steps to get you started with Eclipse:

Below is the installation I did a few months ago, so it is dated a bit, and skewed to Windows, but lends the idea of what to do:

- 1. Alternatively, maybe the jdk is already installed on your computer??? Look for a folder like: "C:\Program Files\Java\jdk1.8.0_73\bin." This indicates I have on this computer, java development kit for Java 8, release 73.
- 2. JDK for Java 6, 7, 8, 9 are all just fine for CS210 and CS211.
- Download the Java Development Kit (jdk) from Oracle.com Be certain to select the your correct operating system.
- 4. **Install the JDK.** It's usually an application (exe) in downloads that you need to run, install, and probably reboot.



Download the Eclipse IDE from www.eclipse.org. It's usually a zip file (example below), meaning you MUST EXTRACT all the files first, then make a shortcut to eclipse.exe as outlined below:

Find the correct "download" for your OS, mine in Win 64 bit:



Here's where I recently downloaded my Eclipse exe from:

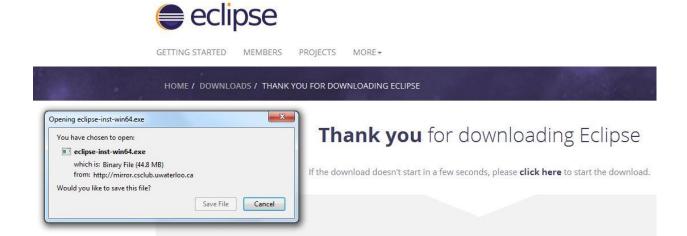


Download from: Canada - University of Waterloo Computer Science Club (http)

File: eclipse-inst-win64.exe SHA-512

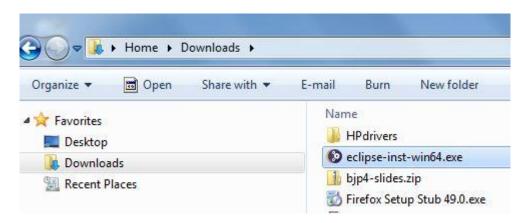
>> Select Another Mirror

Here's more of what I saw when found the correct download:



So that saved an application (exe) as shown below for my PC.

Double click that exe and here we go



Here's what my "install" looked like:



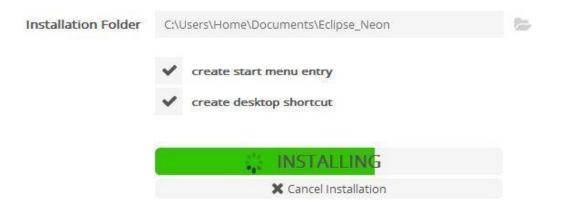




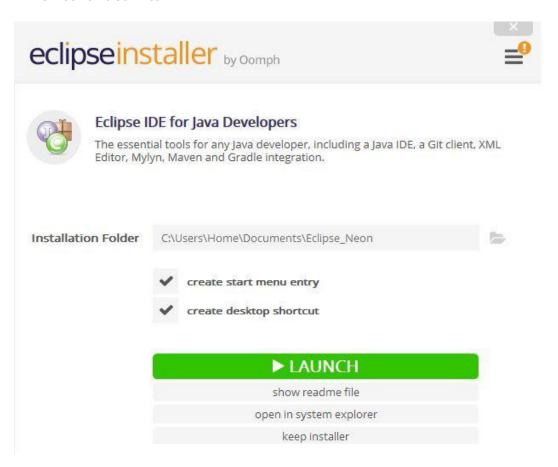


Eclipse IDE for Java Developers

The essential tools for any Java developer, including a Java IDE, a Git client, XML Editor, Mylyn, Maven and Gradle integration.

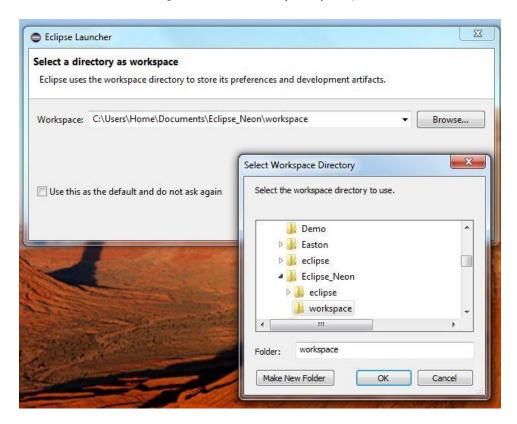


Which continued into:

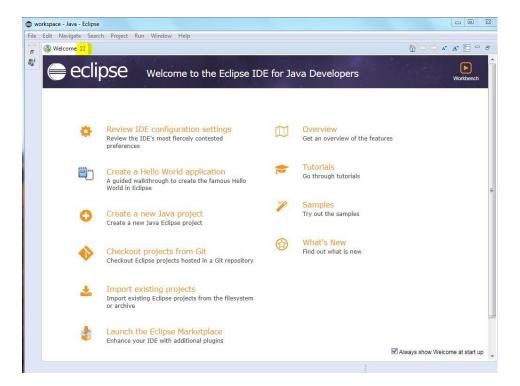


Eclipse is NOT a normal Windows install, so proceed with caution. There will be times when you need to know the PATH of these folders. Shown below is probably the most important step of the whole Eclipse install.

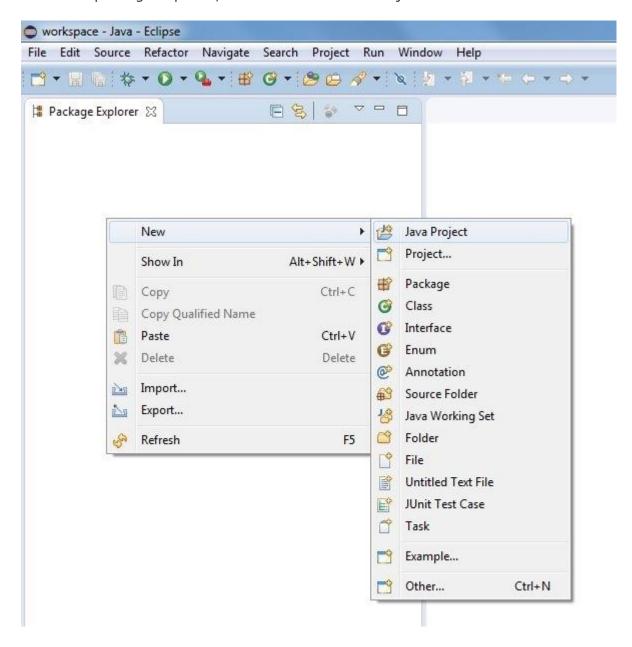
You MUST know the path of files where the workspace is installed, else you cannot hand in ASSIGNMENTS and QUIZZES. Know your path, mine looked like:



The Eclipse workspace opens and the Welcome message appears.

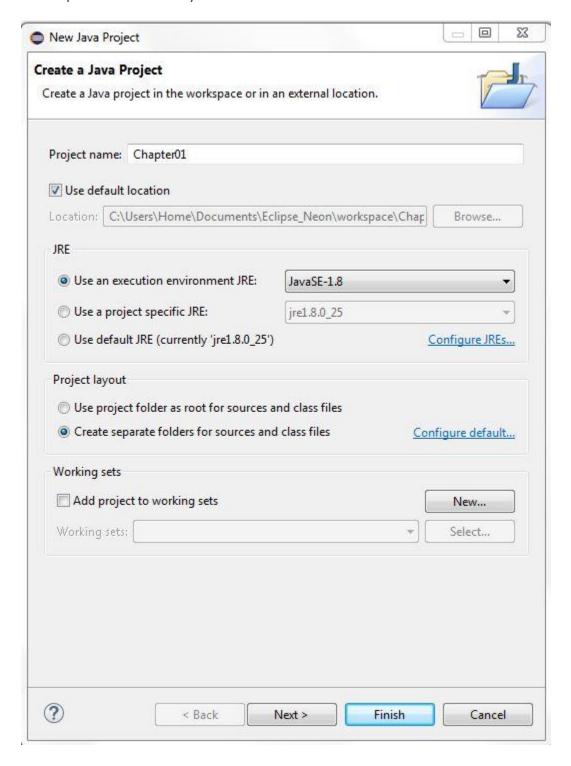


Close the Welcome message by clicking the "X." Below is the basic Java perspective of Eclipse. Close the Task List and Outline to simplify the workspace environment. Next, right-click in the white space under the package explorer, and select New Java Project:



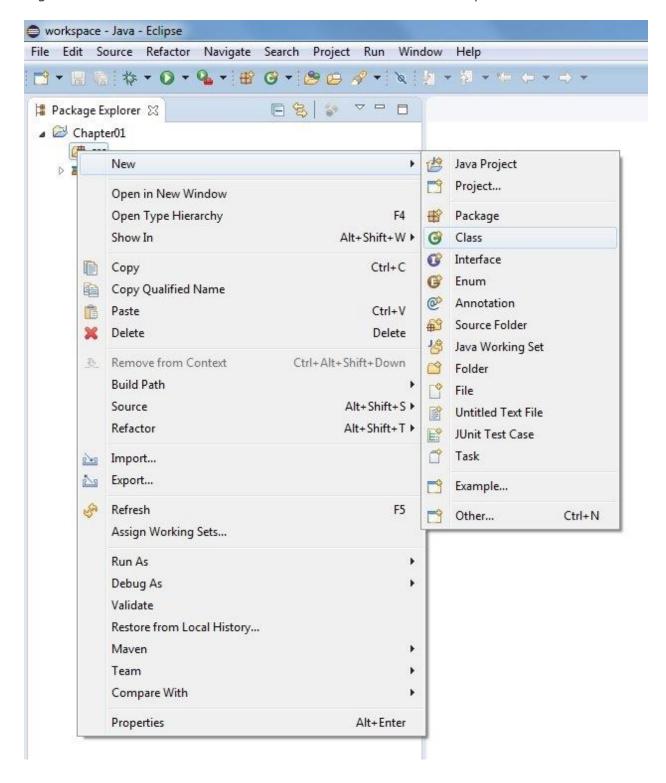
The **New Java Project** window opens. Type "Chapter01" (without the quotation marks) in the **Project name:** textbox. This creates a Chapter01 folder in the workspace from the first step.

AGAIN: Take note of the complete folder path of the Eclipse workspace. The workspace is where you find your Java files that will be turned in for exams and programming assignments. That workspace folder path is critical to your success in this course.



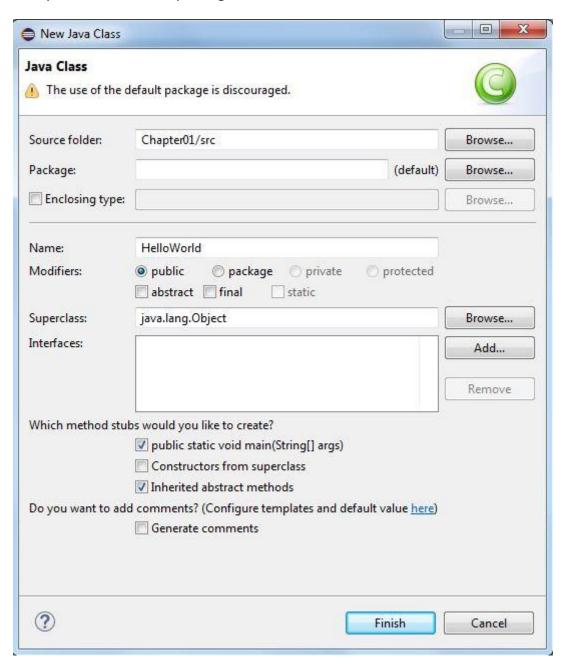
In the Package Explorer pane on the left side of the workspace, you will see the "src" (source) and "JRE System Library" folders below the "Chapter01" folder.

Right-click on the src folder and the **New Java Class** window opens.

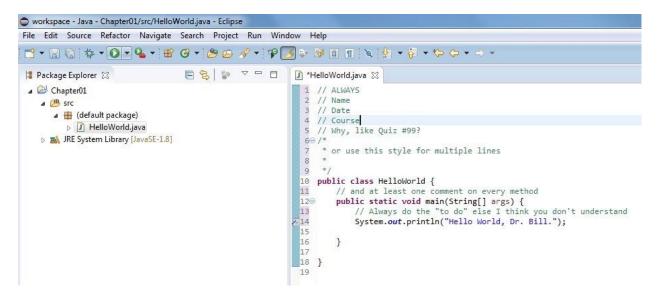


I normally use the "default" folder for CS210, because we do not cover the use of packages. In CS211, the concepts of inheritance, protected fields, package access, and Javadoc organization are covered. Only then, is a package needed.

At this point, a "package" would only just make another folder level to keep track of, so I really always use the default package.



Below is the result after removing the TODO, means I did what I need to do, and typed in what I want for my Hello World program:



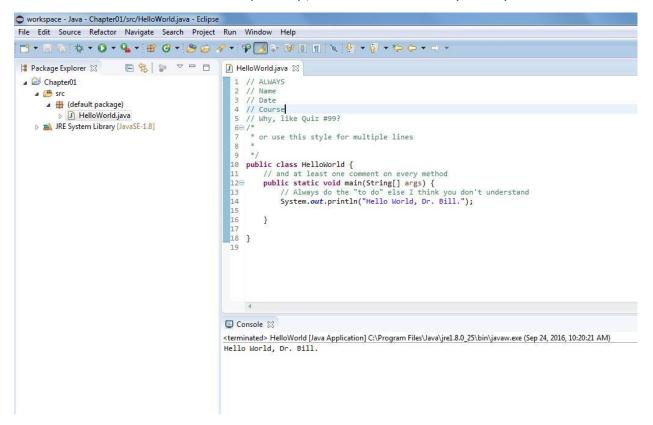
The code is annotated at the top of the file with the following information:

- Your name
- Date
- what you're doing (a description of the purpose of the code segment)
- BC Course (the project to which the code segment belongs)
- additional information (any information that will help you or other developers understand the code)

Click the green run button at the top, and our program launches:



Which means a console window opens up, so I can see what System yields to out:



And I know that someday, you will forget that file path, because I only told you how important it is 3 times over, but it take the stress of an exam to discover that yes I need to know that. So you can simply right-click the file and look at the file properties, here's that path again:

