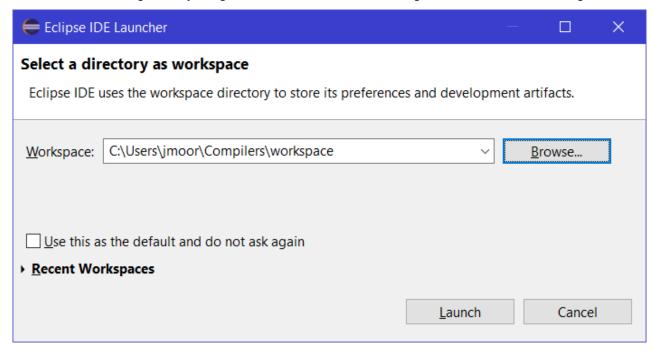
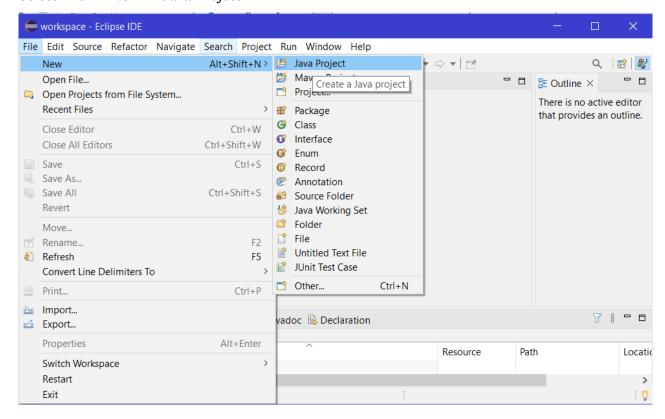
Tips on Creating a Multi-Module Project Using Eclipse

This handout illustrates *one* way to create a multi-module Java project for your compiler using Eclipse. It creates the Compiler (edu.citadel.compiler) and CVM (edu.citadel.cvm) modules as described in Appendix A of the book, but other modules are created similarly.

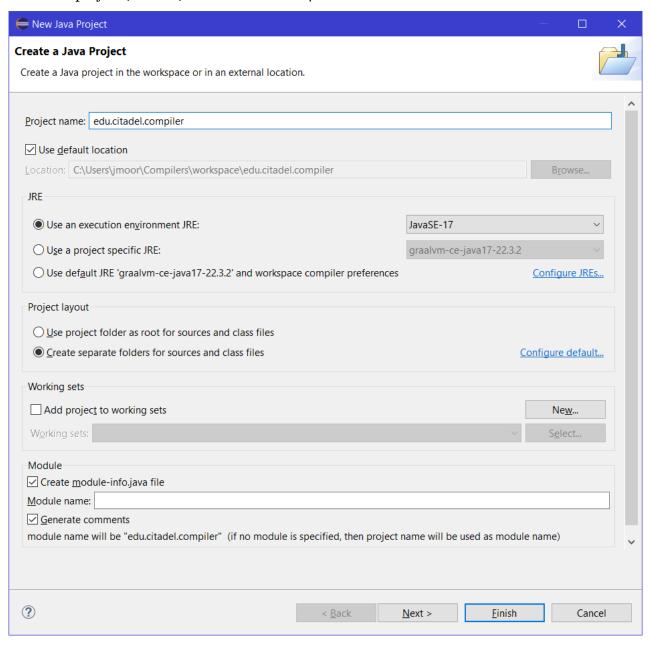
1. Create a new workspace at your preferred location. This example uses the name "workspace".



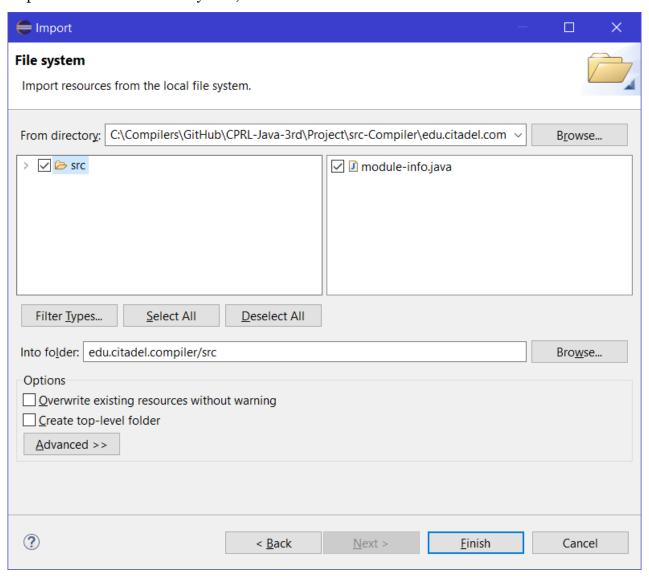
2. Each module for your compiler will be packaged as a separate Eclipse project in the workspace. Select File - > New -> Java Project



3. Name the project (module) edu.citadel.compiler and click Finish.

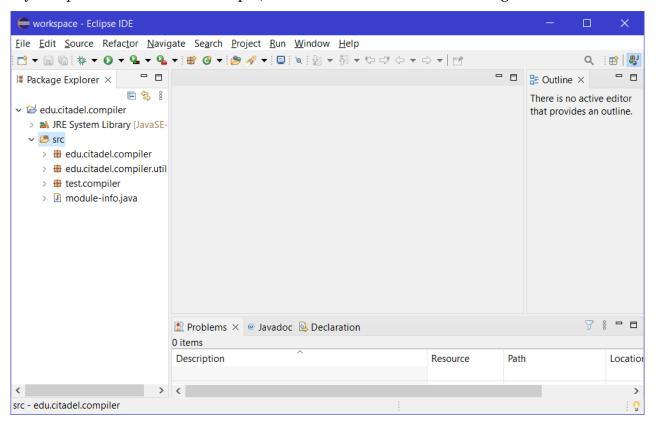


4. Once any module has been created, you can add new packages and Java source files to the module in the standard way, but all source code for this particular module is available in the GitHub repository as described in Appendix A. There are several ways to copy the code downloaded from GitHub into this module. The easiest way is to right click on the src folder, select Import... -> General -> File System, and browse to the src folder downloaded from GitHub.



Alternatively, instead of using Eclipse to import the source code, use a file explorer to copy the src folder for this module (previously downloaded from GitHub) to the src folder in the newly created Eclipse project. This will also replace the file named module-info.java created automatically by Eclipse. Back in Eclipse, right click on src and select refresh or simply press the F5 key.

5. If you expand the src folder in Eclipse, it should look similar to the following.



6. Use steps 2-4 above, create a new module named edu.citadel.cvm. This module has a dependency on module edu.citadel.compiler, so after creating the module using these steps Eclipse indicates that errors exist. We need to tell Eclipse to look for missing files in the compiler project. Right click on the project and select Build Path -> Configure Build Path... Select the Projects tab, and add edu.citadel.compiler to the Modulepath. Click Apply and Close.

