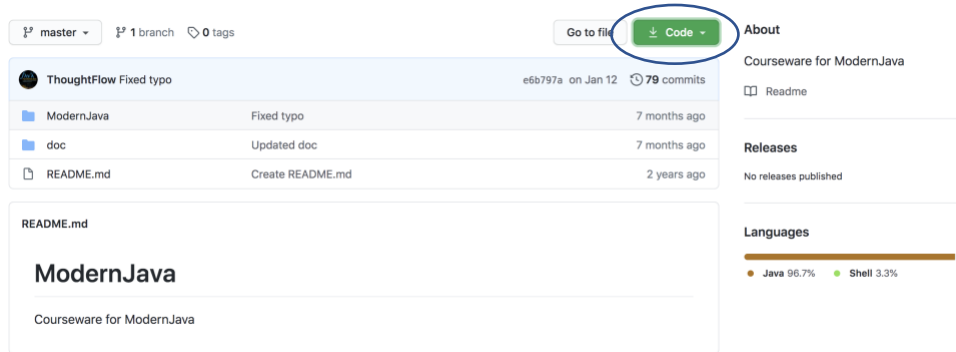


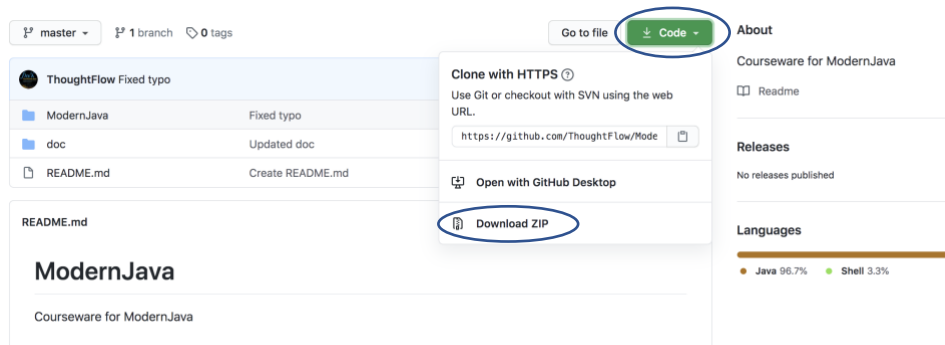
Creating the Eclipse project on MacOS

These instructions are for creating Eclipse Java project files.

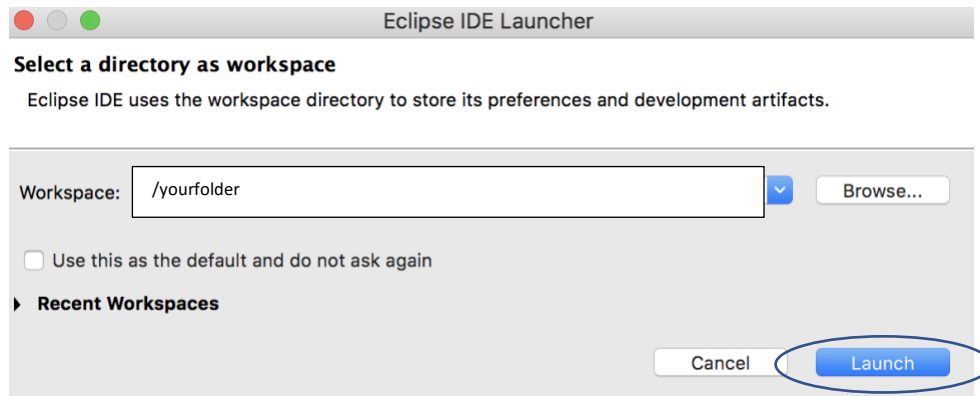
1. Fetch the source code at <https://github.com/ThoughtFlow/ModernJava>
2. Select “Code”



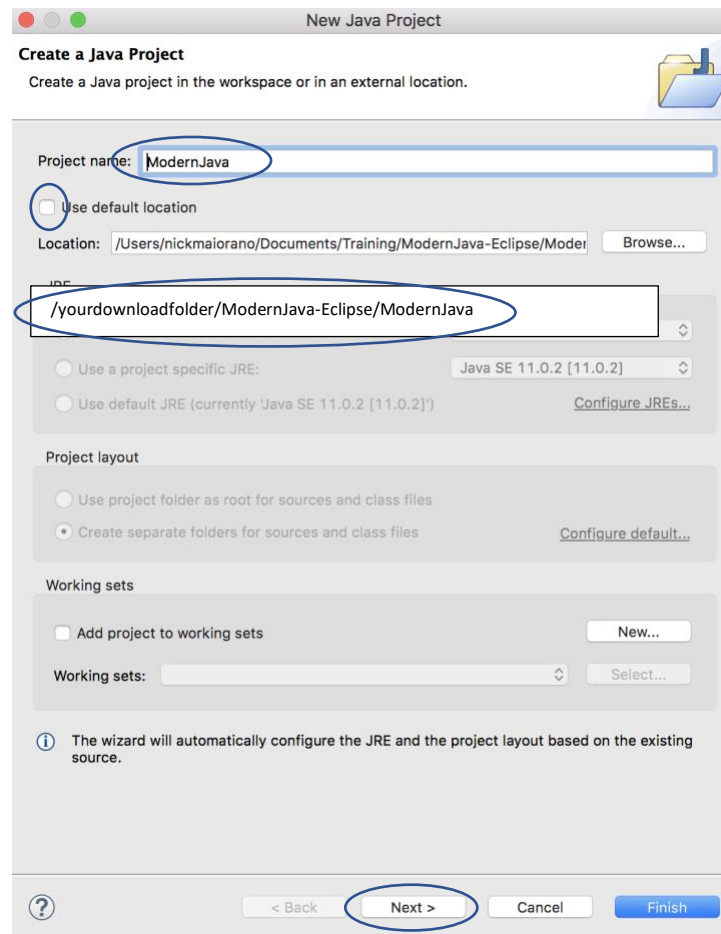
3. Select “Download zip” - this will download a file named “ModernJava-master.zip” in your download folder. Unzip the file.



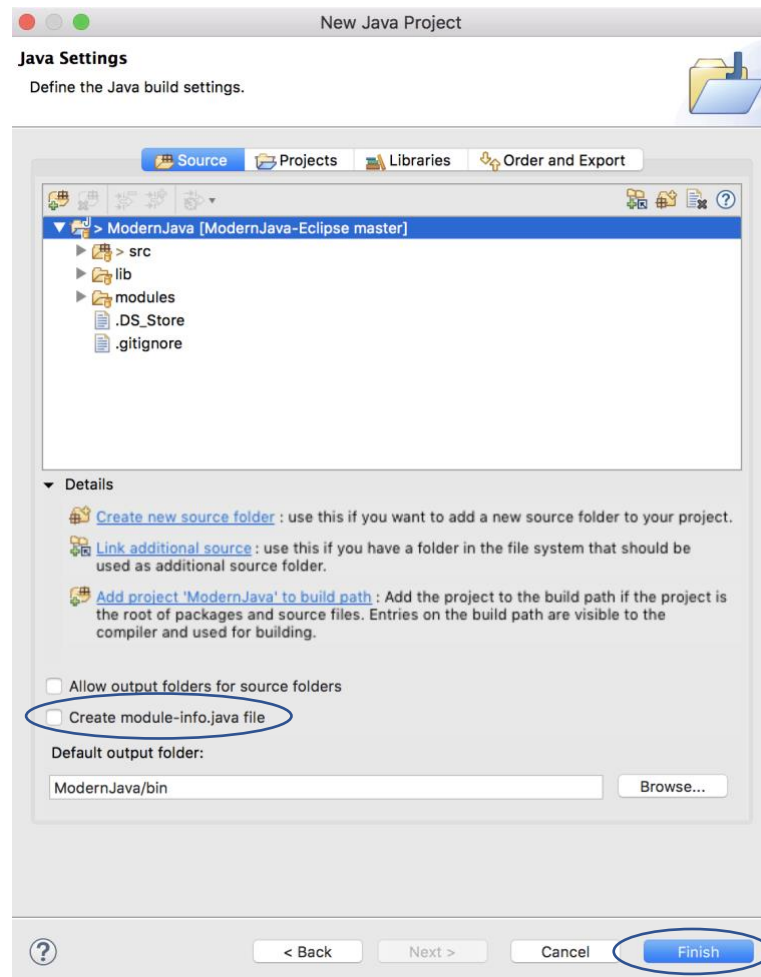
4. Start Eclipse and choose a workspace then press launch. For example:



5. Close the welcome window.
 6. Select File | New | Java project
- Choose a project name and untick the “Use default location” button. Then, browse to your download folder and into “ModernJava-master/ModernJava. Press next.



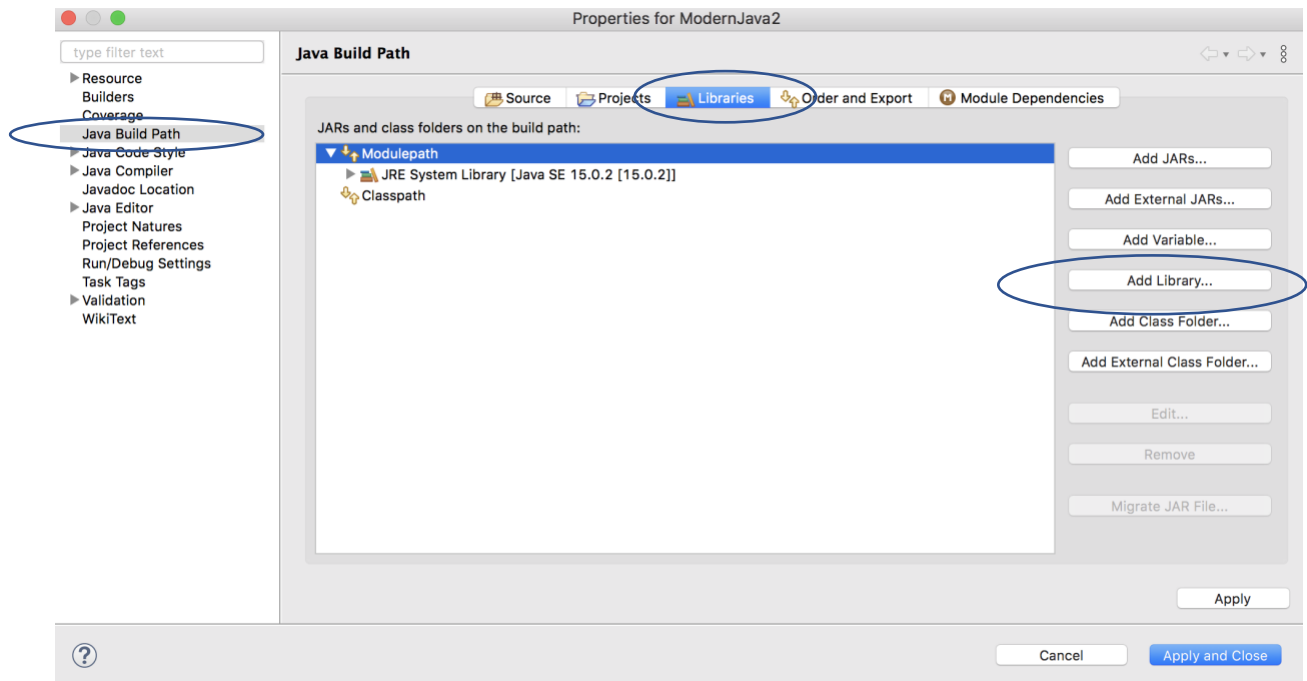
7. Uncheck “Create module-info.java” file and select finish.



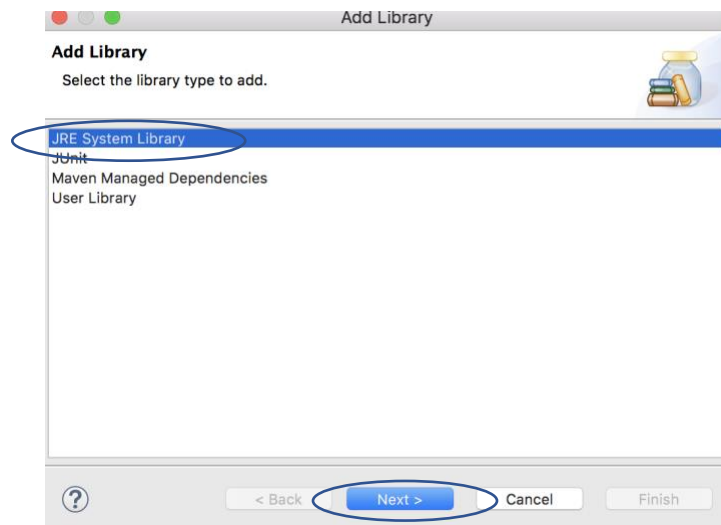
8. Right-click on the ModernJava root node and select “Properties” from the context menu.



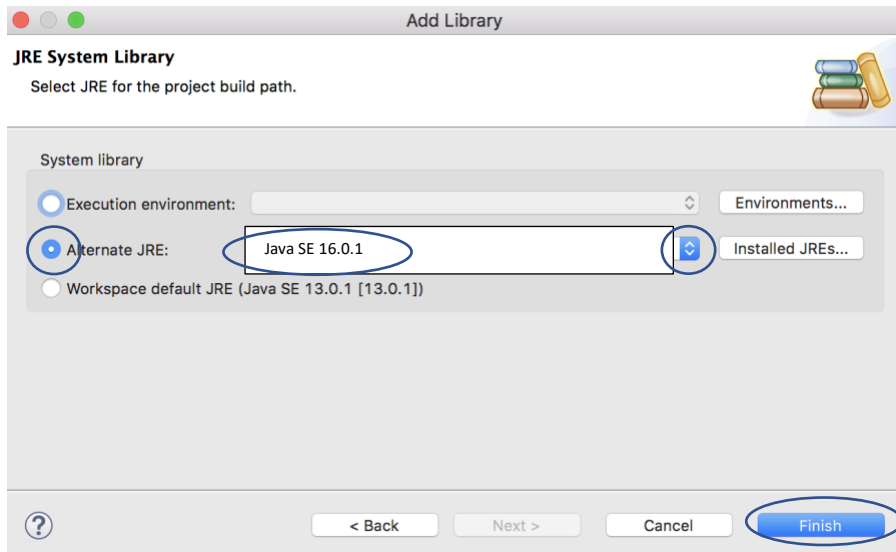
9. Select the “Java Build Path” menu item then click on the “Libraries” tab and press the “Add Library...” button.



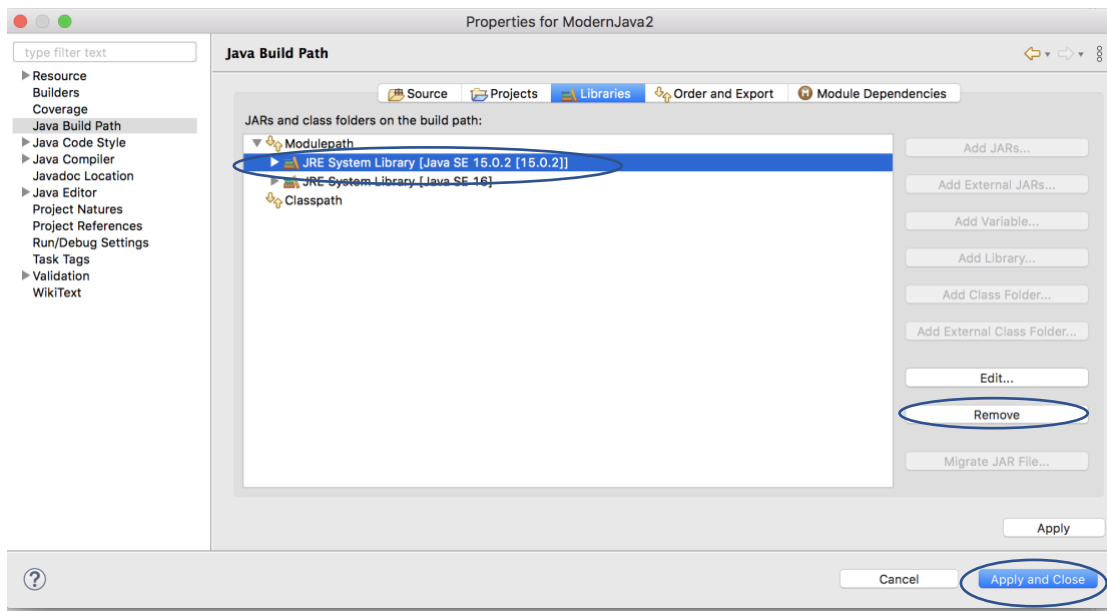
10. Select the “JRE System Library” menu option and next.



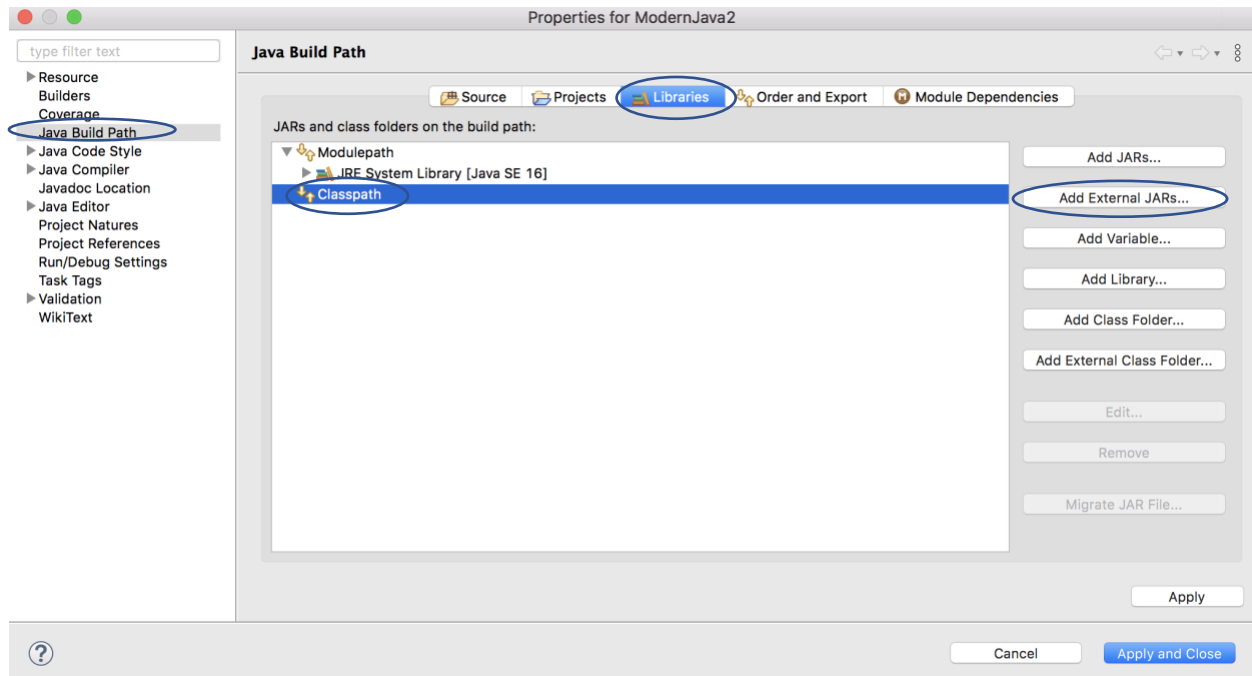
11. Select the “Alternate JRE” radio button, click on “Installed JREs...” and pick “JRE SE 16”, then finish. If you do not see version 16, you must install it first by following the instructions “Installing JRE 16 in Eclipse” at the end of this document.



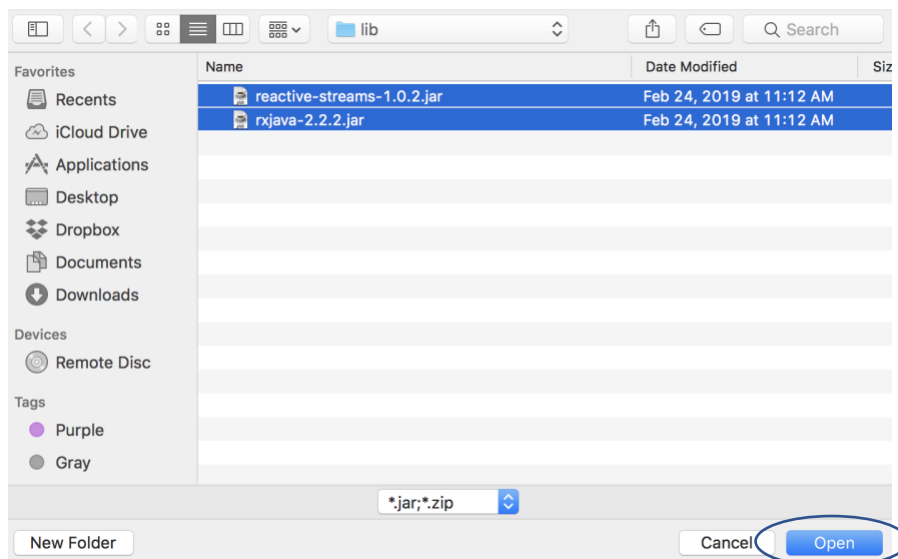
12. Select and remove any other JRE system libraries besides JRE 16. Then press “Apply and close”.



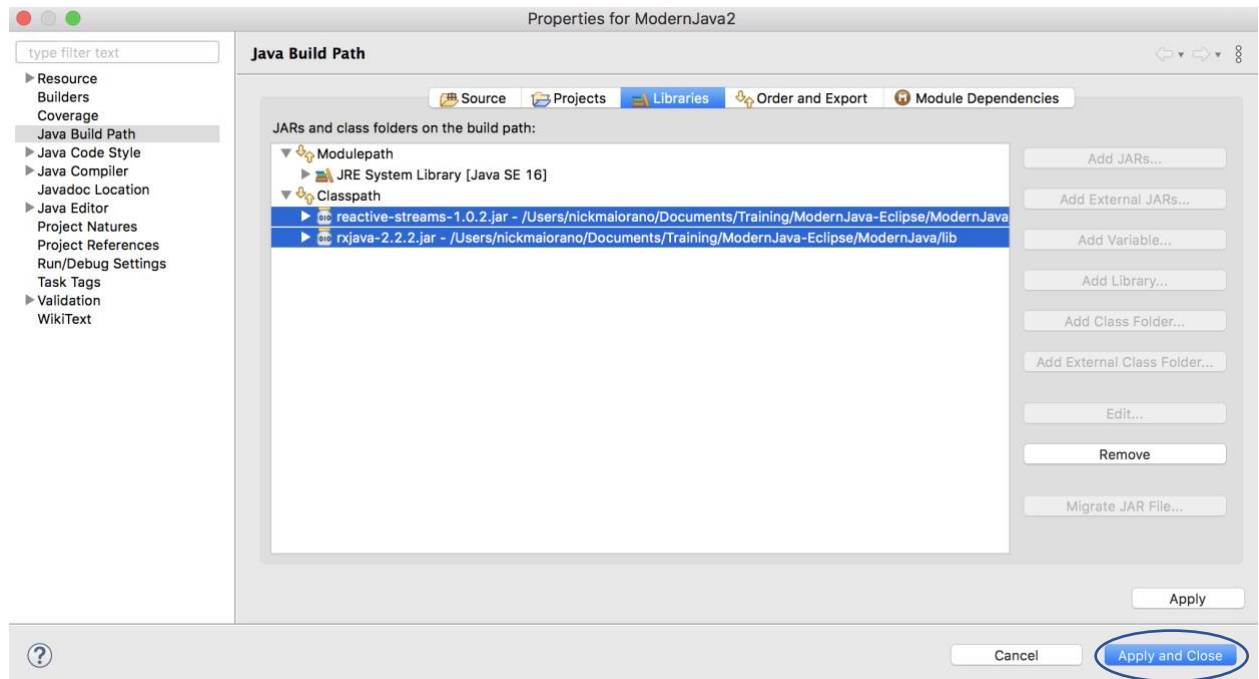
13. Right-click on the ModernJava root node and select “Properties” from the context menu. Select “Java Build Path”, then the “Libraries” tab, then select “Classpath” and press “Add External JARs” under “Classpath”.



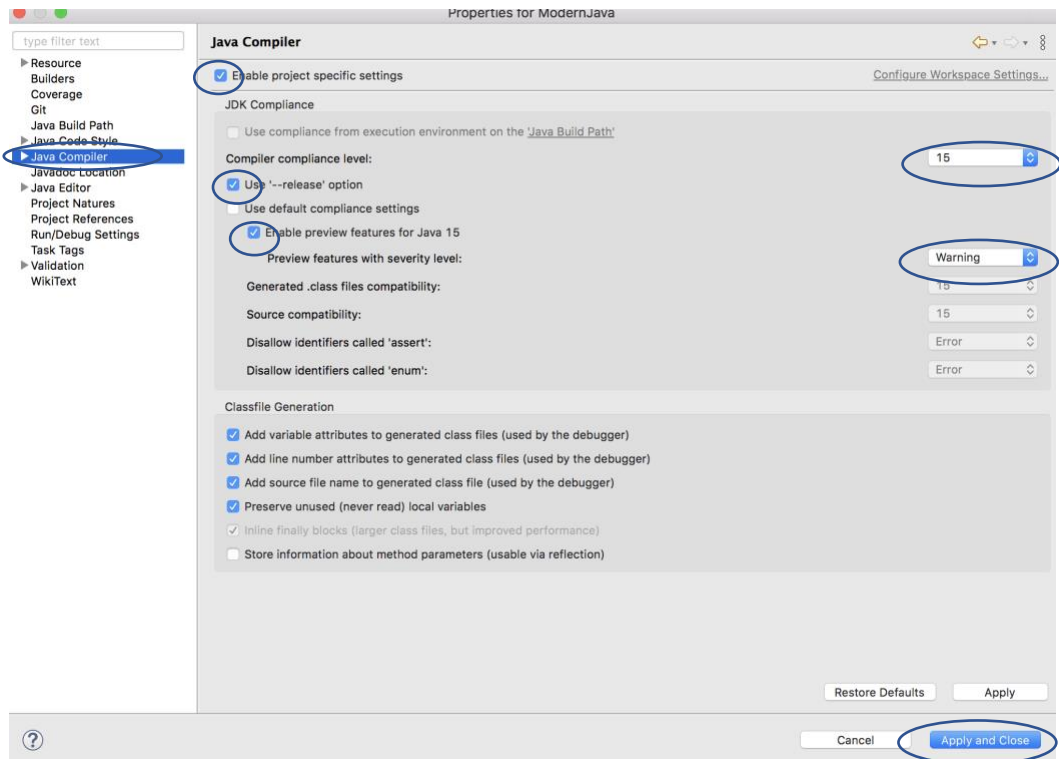
14. Browse to `/yourdownloadfolder/ModernJava-master/ModernJava-master/ModernJava/lib` and select `reactive-streams-1.0.2.jar` and `rxjava-2.2.2.jar` and press “Open” then “Apply and close”.



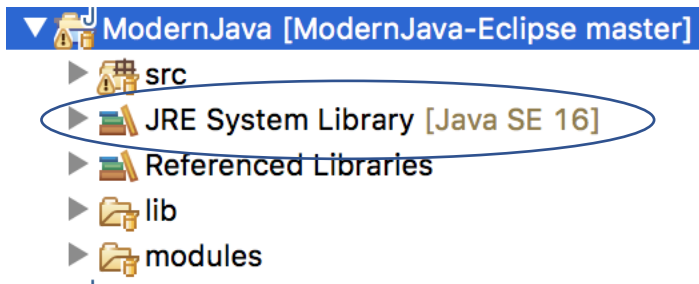
15. Select “Apply and Close”



16. The latest version of Eclipse does not support Java 16 compliance level yet. As such, ensure you have enabled Java 15 language features. Right-click on the ModernJava root node and select “Properties” from the context menu (as in step 8). Then, select “Java compiler”. Ensure the compliance level is “15”. Check “Use ‘—release’ option”, check “Enable preview features for Java 15” and set the severity level to “Ignore”. Accept the warning that may appear to rebuild the project.



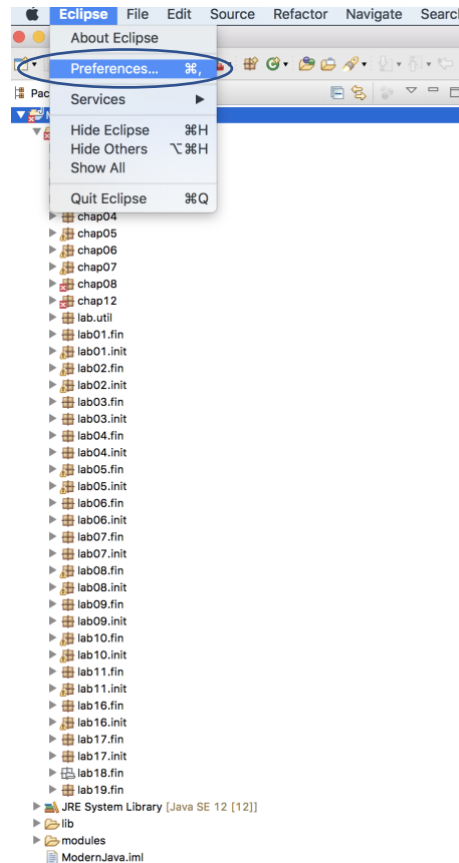
17. Ensure you have the JDK 16 installed and there are no compilation errors.



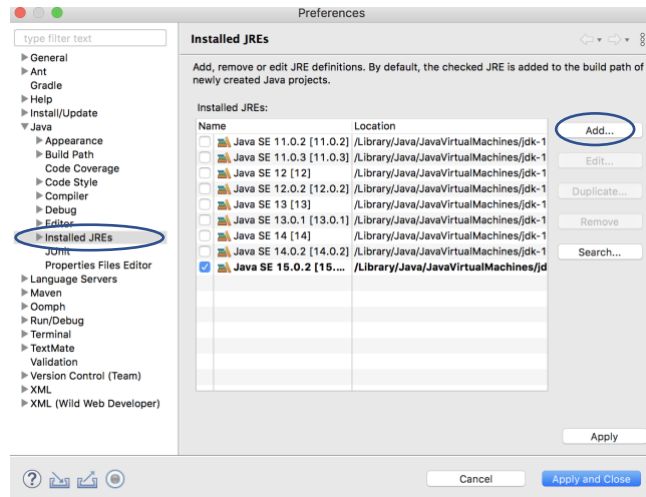
Installing JDK 16 in Eclipse

If your Eclipse installation is not configured for JDK 16, follow these instructions.

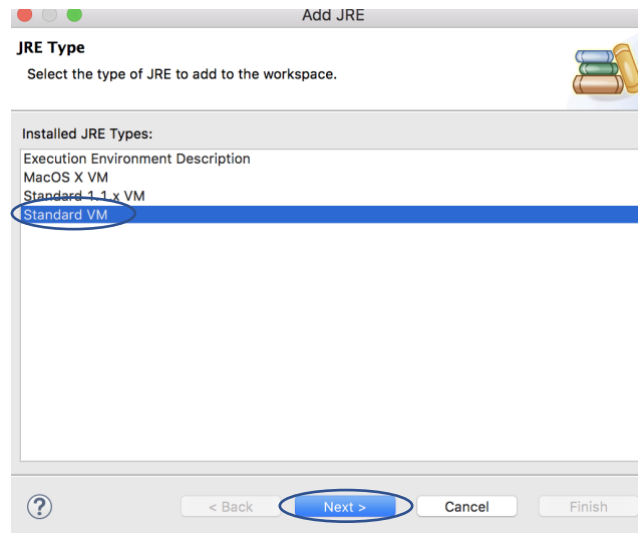
1. In the “Eclipse” menu, select “Preferences”.



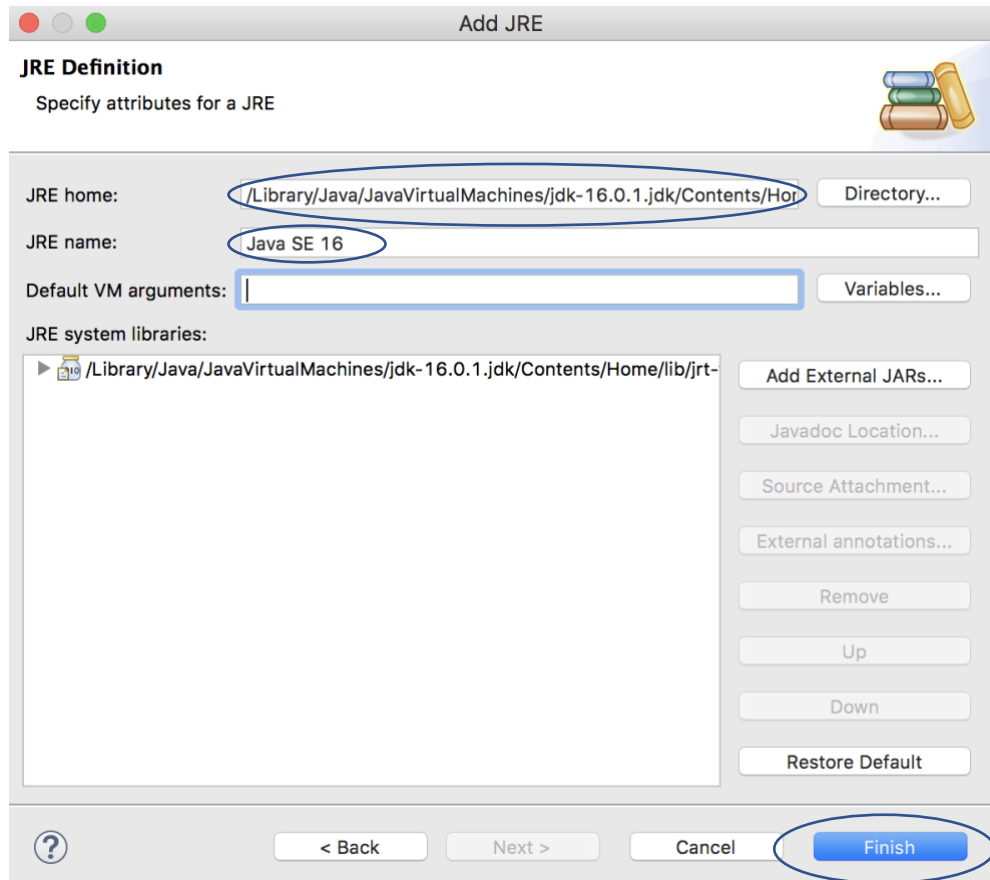
2. In the “Java” option, select “Installed JREs”. If Java SE 16 does not appear in the installed JREs list, you must install it by clicking on “Add...”. Otherwise, you can stop here.



3. Select the “Standard VM” option and click “Next”.



4. Enter the JRE home and name values as shown then click “Finish”. (Use latest Java version available e.g. 16.0.1 or greater.)



5. When you go back to preferences (step 1 and 2), ensure that Java 16 is enabled:

