Creating the Eclipse project on MacOS
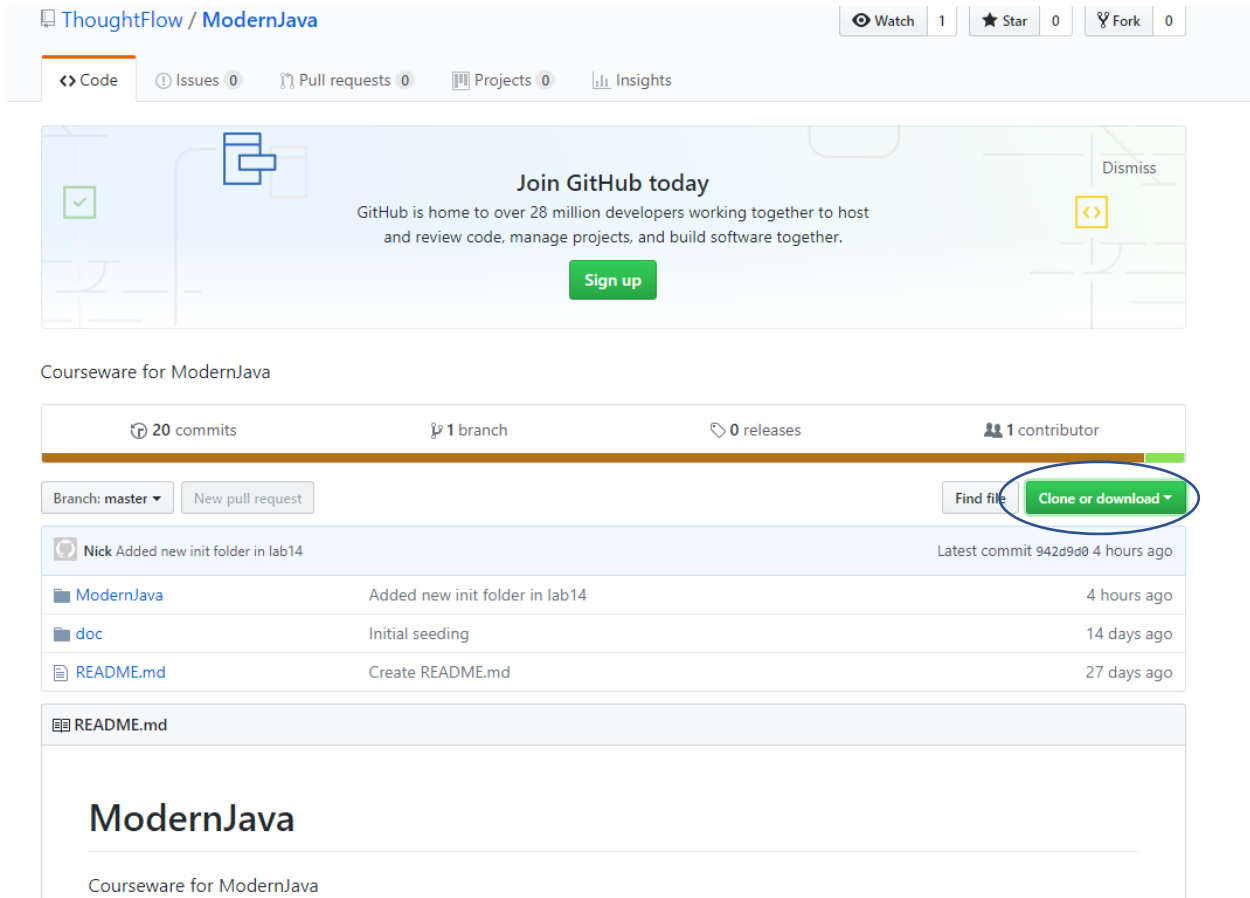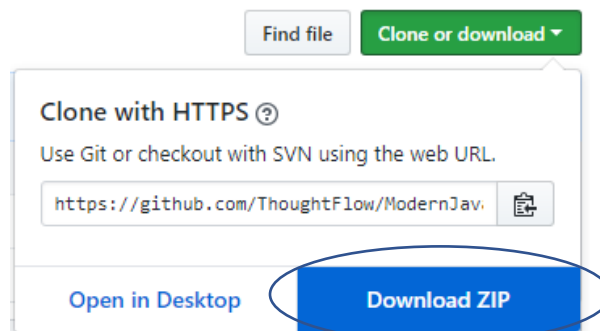
These instructions are for creating Eclipse Java project files.
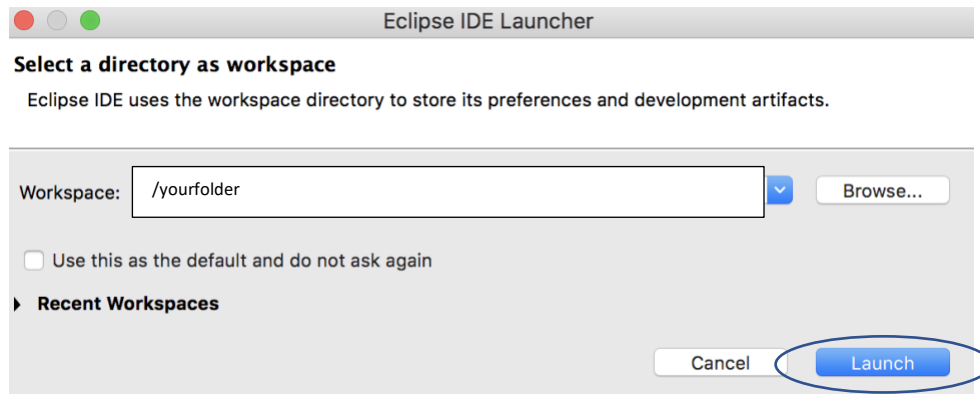
1. Fetch the source code at https://github.com/ThoughtFlow/ModernJava
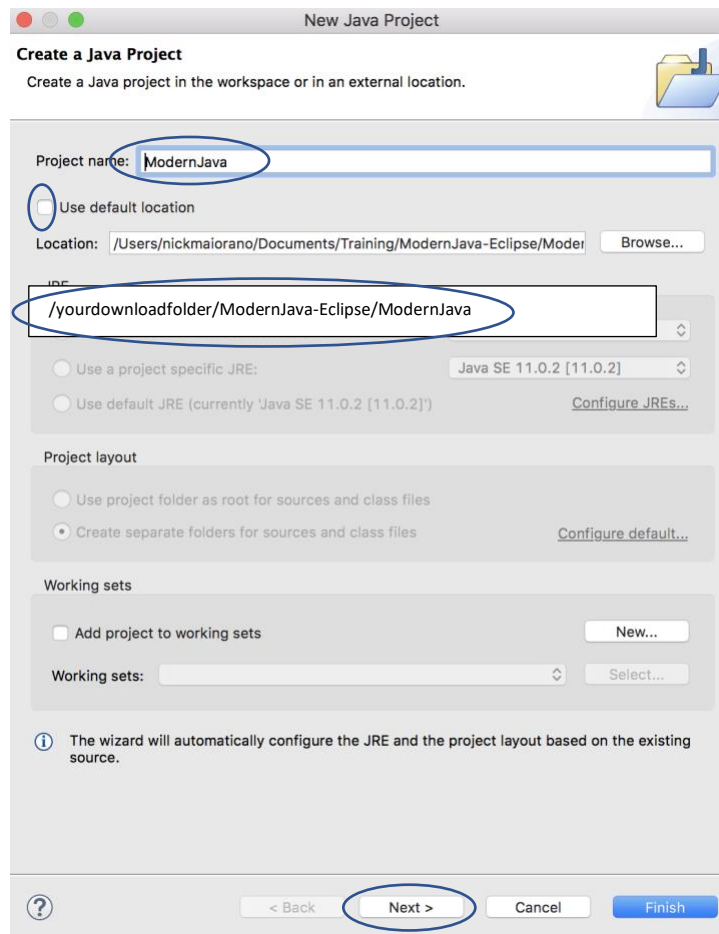2. Select "Clone or download"

3. Select "Download zip" - this will download a file named "ModernJava-master.zip" in your download folder. Unzip the file.
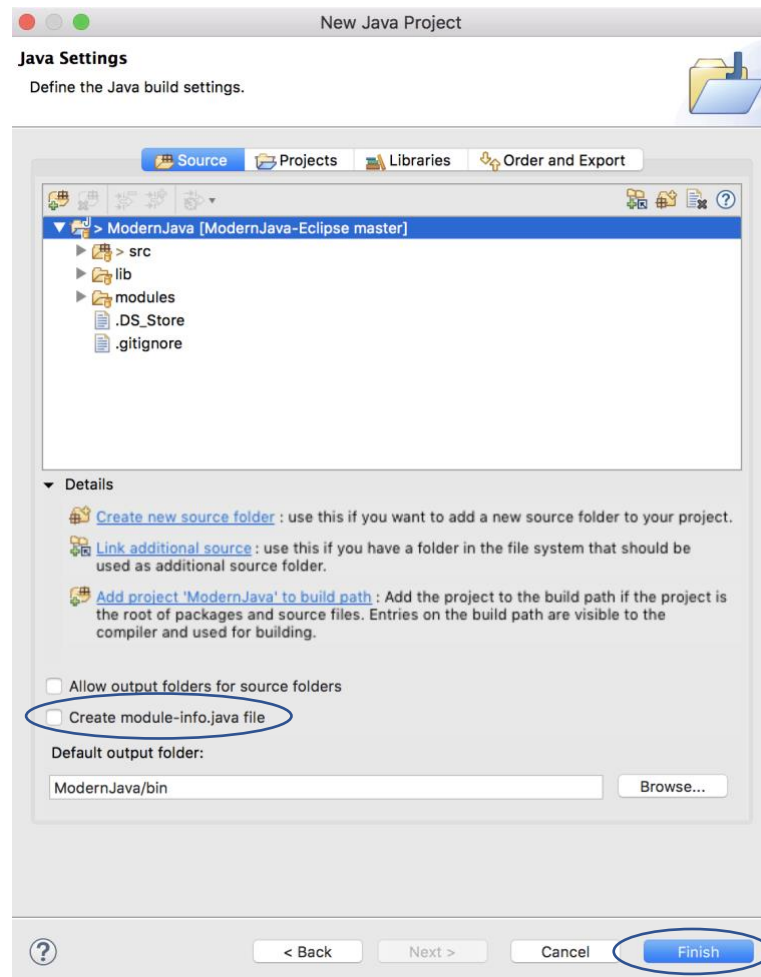
4. Start Eclipse and choose a workspace then press launch. For example:

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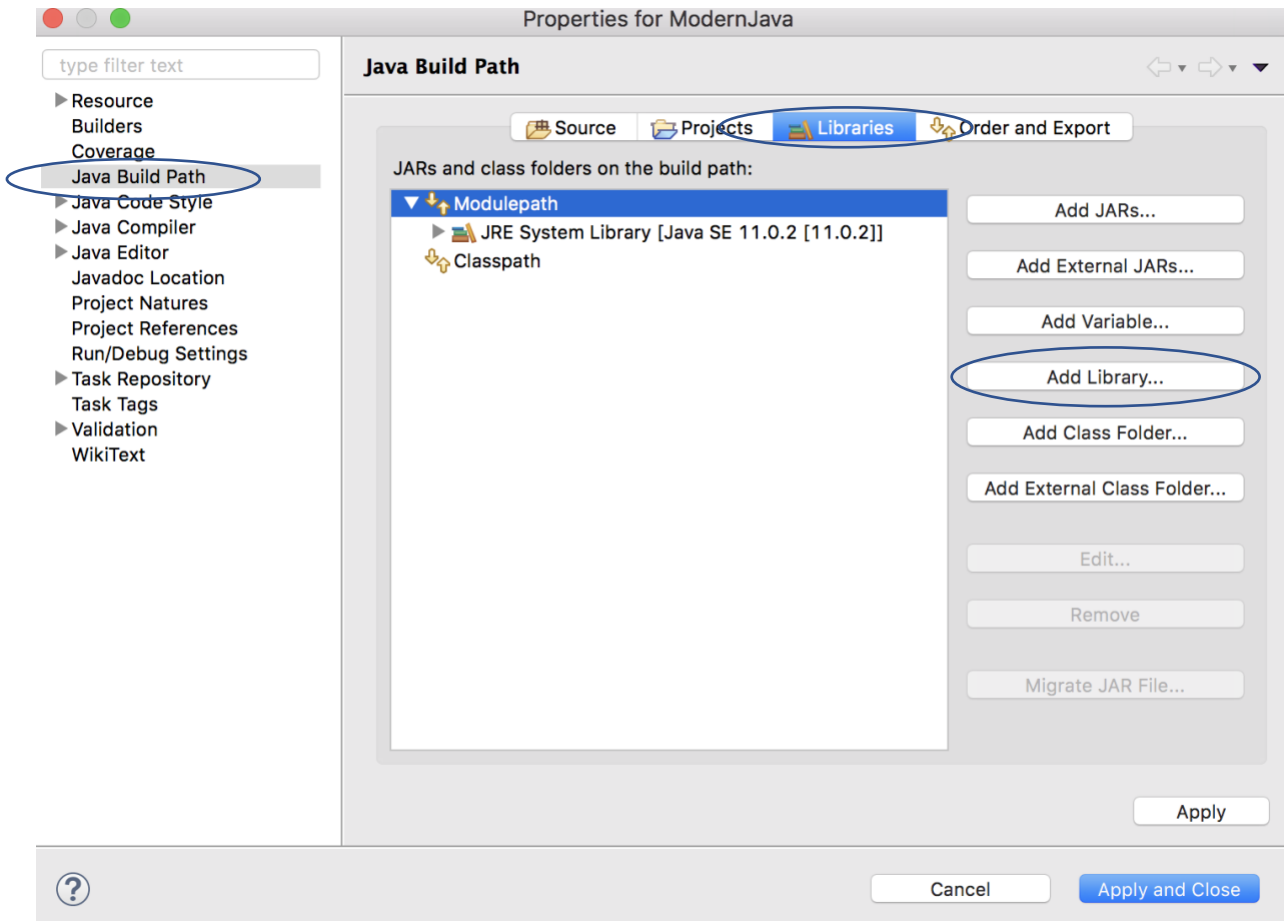
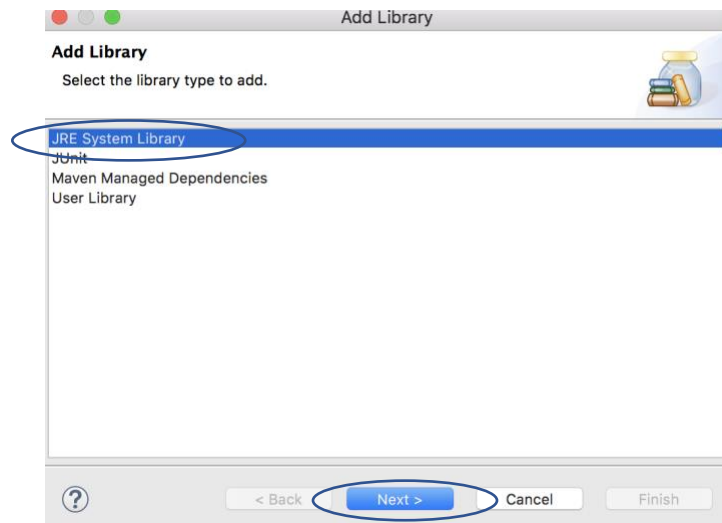7. Uncheck "Create module-info.java" file and select finish.

8. Right-click on the ModernJava root node and select "Properties" from the context menu.
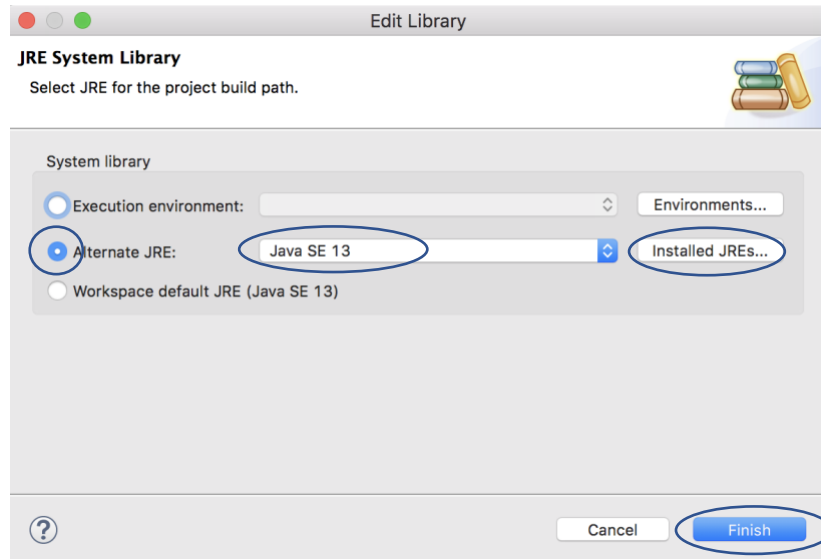
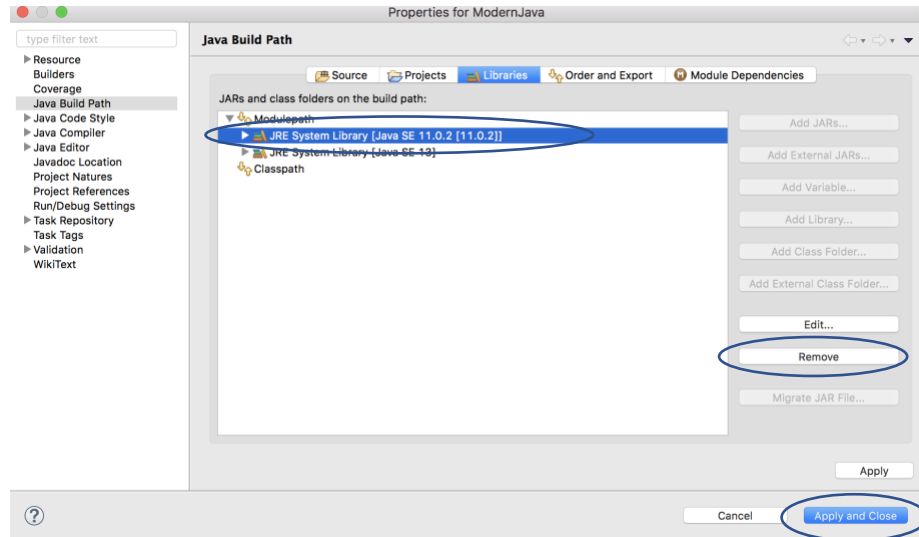9. Select the "Java Build Path" menu item then click on the "Libraries" tab and press the "Add Library…" button.

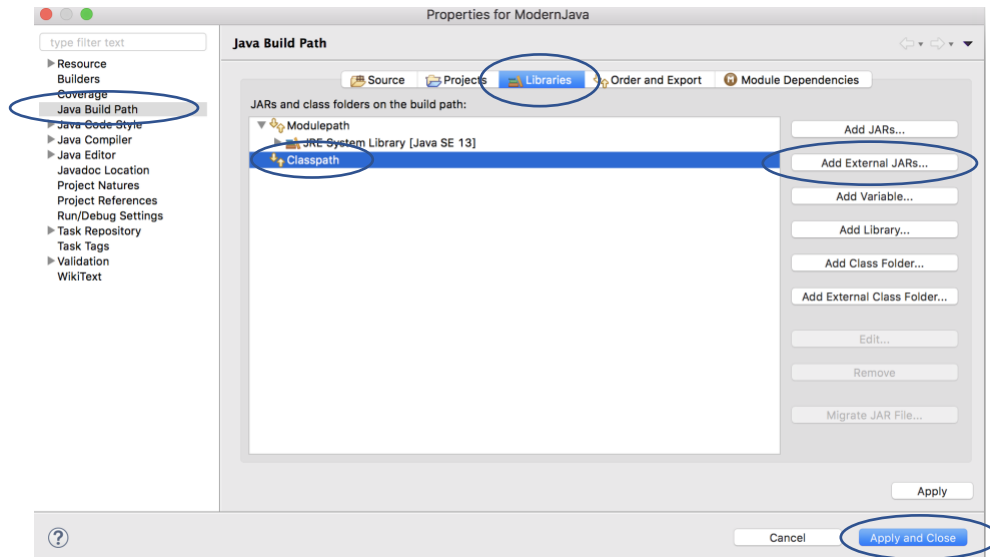

10. Select the "JRE System Library" menu option and next.

11. Select the "Alternate JRE" radio button, click on "Installed JREs…" and pick "JRE SE 13", then finish. If you do not see version 13, you must install it first by following the instructions "Installing JRE 13 in Eclipse" at the end of this document.
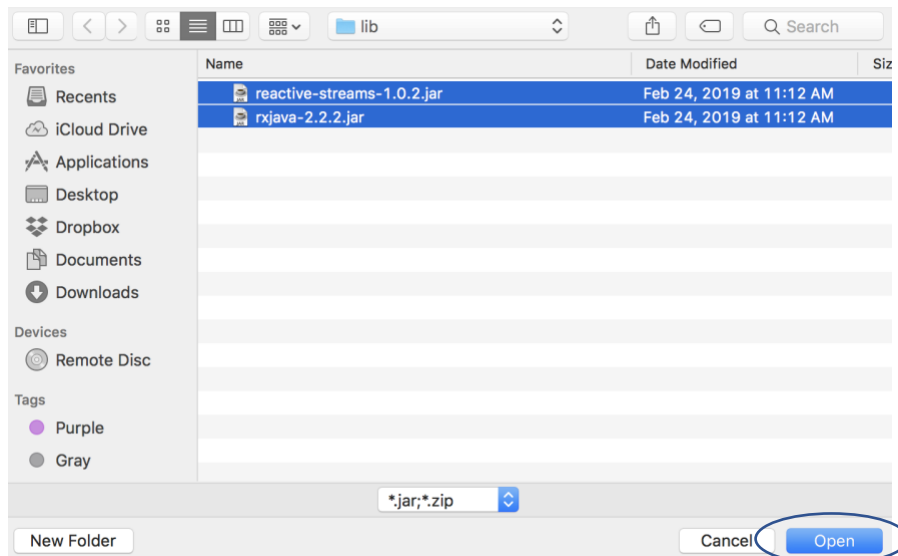

12. Select and remove any other JRE system libraries besides JRE 13. Then press "Apply and close".
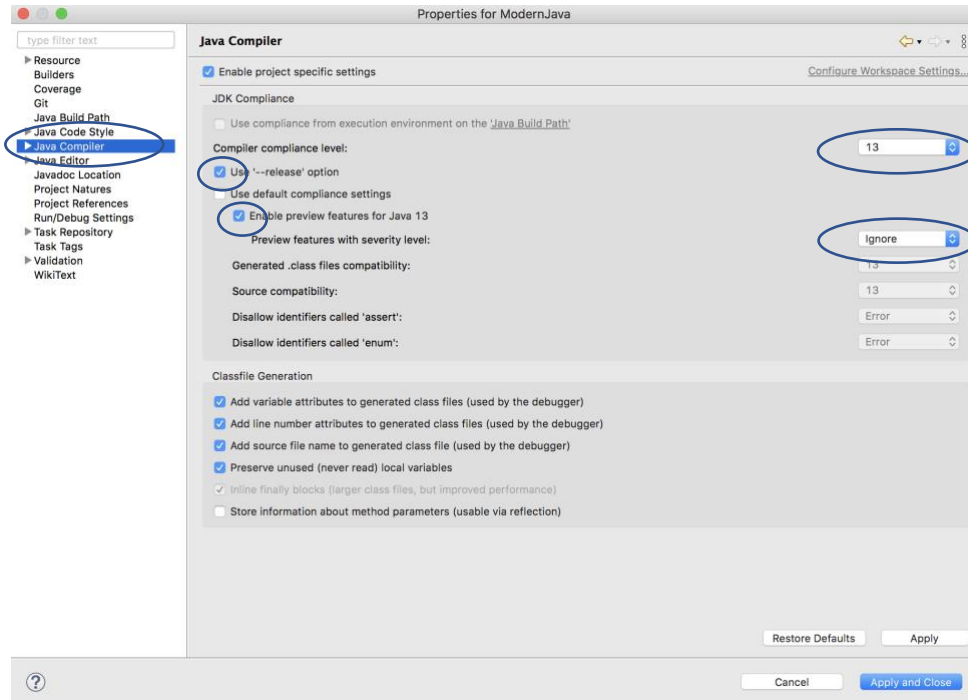
13. Select "Java Build Path", then the "Libraries" tab, then press "Add External JARs" under "Classpath. Right-click on the ModernJava root node and select "Properties" from the context menu.
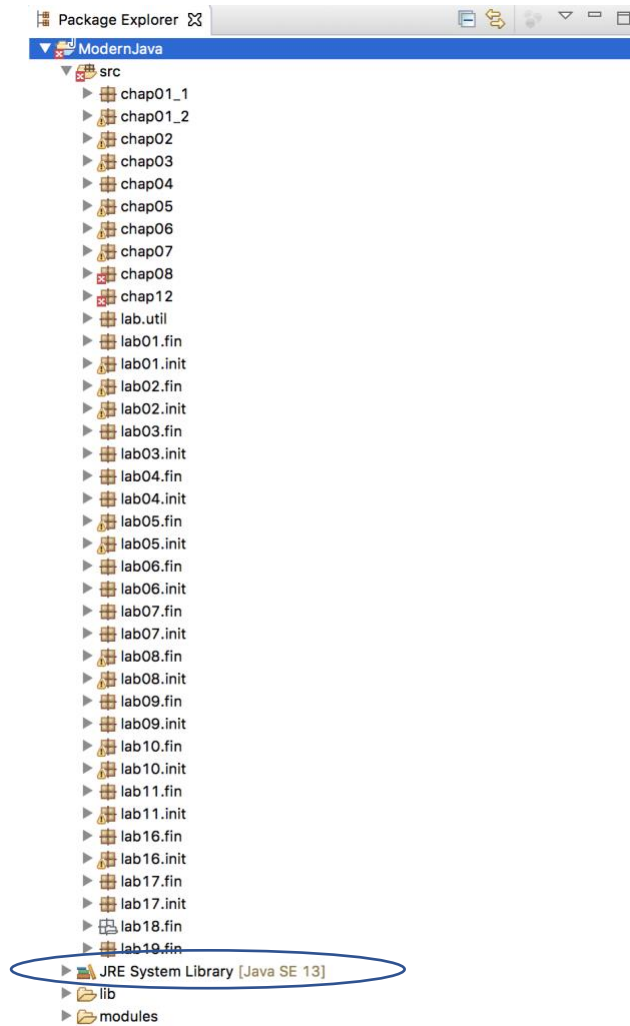

14. Browse to
/*yourdownloadfolder*/ModernJava-master/ModernJava-master/ModernJava/lib   and select reactive-streams-1.0.2.jar and rxjava-2.2.2.jar and press "Open" then "Apply and close".

15. Ensure you have enabled Java 13 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 "13". Check "Use '—release' option", check "Enable preview features for Java 13" and set the severity level to "Ignore".
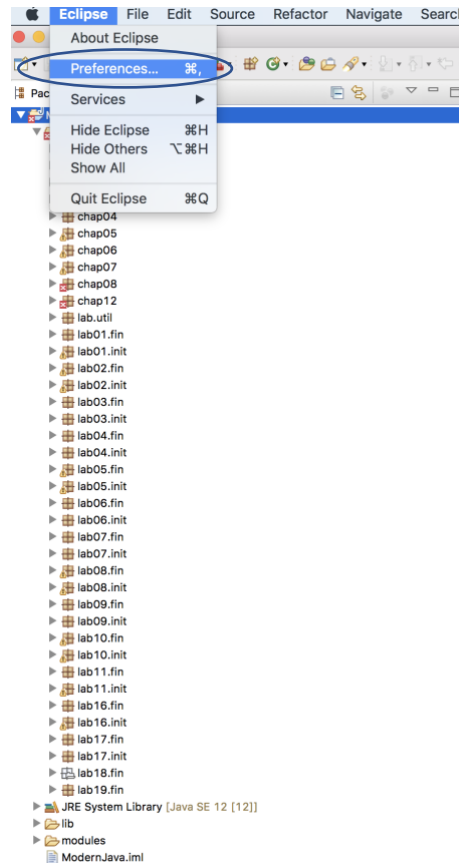
16. Ensure you have the JDK 13 installed and there are no compilation errors.
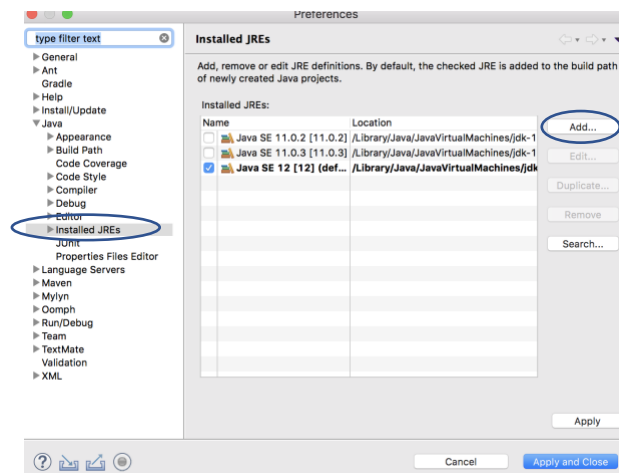
Installing JDK 13 in Eclipse

If your Eclipse installation is not configured for JDK 13, follow these instructions.
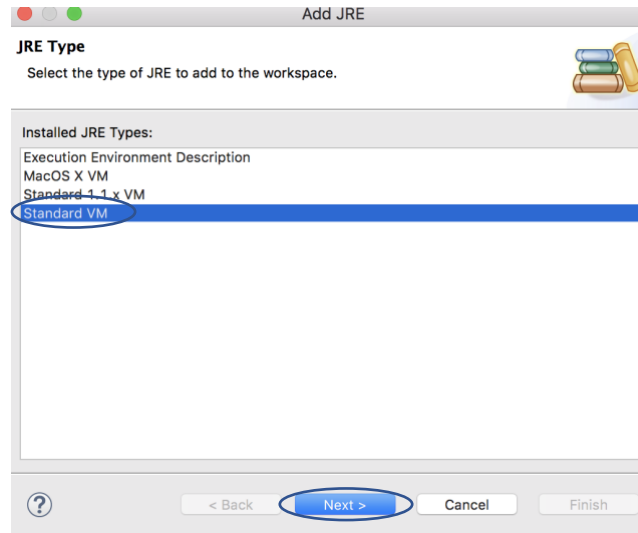
1. In the "Eclipse" menu, select "Preferences".

2. In the "Java" option, select "Installed JREs". If Java SE 13 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. 13.0.1 or greater.)