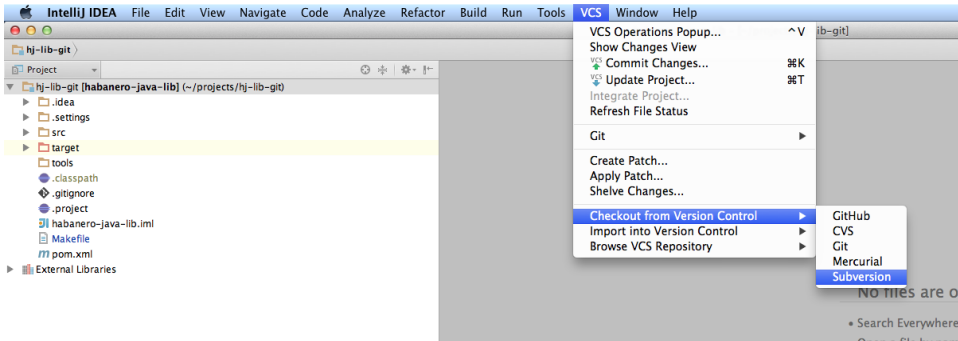


Using IntelliJ to Download and Run lab_1

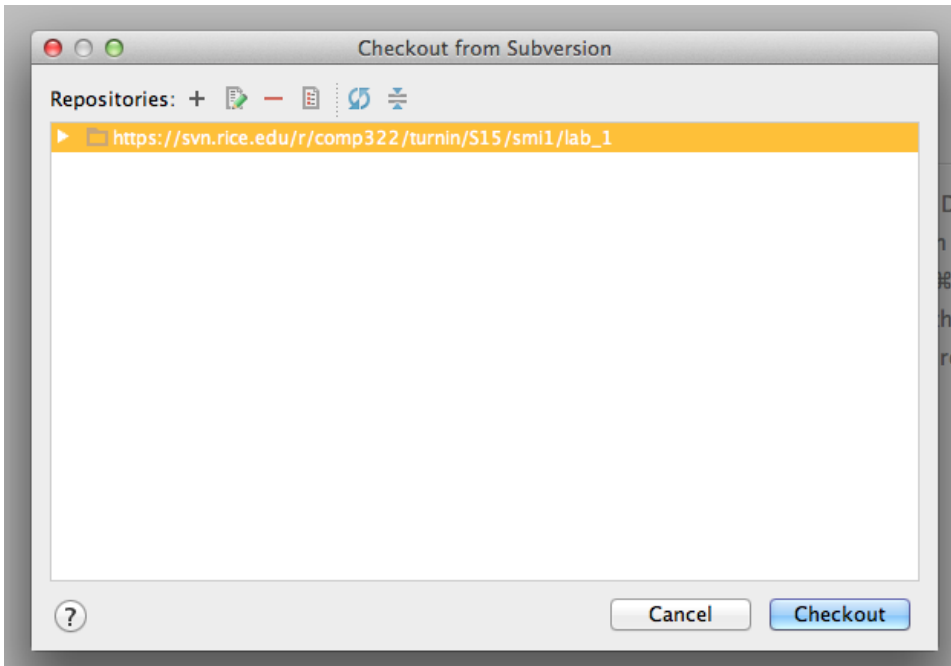
These instructions are for IntelliJ. If you are using Eclipse, similar instructions on running HJlib programs can be found at <http://www.cse.wustl.edu/~cosgroved/courses/cse231/f16/javaagent/>.

Instructions

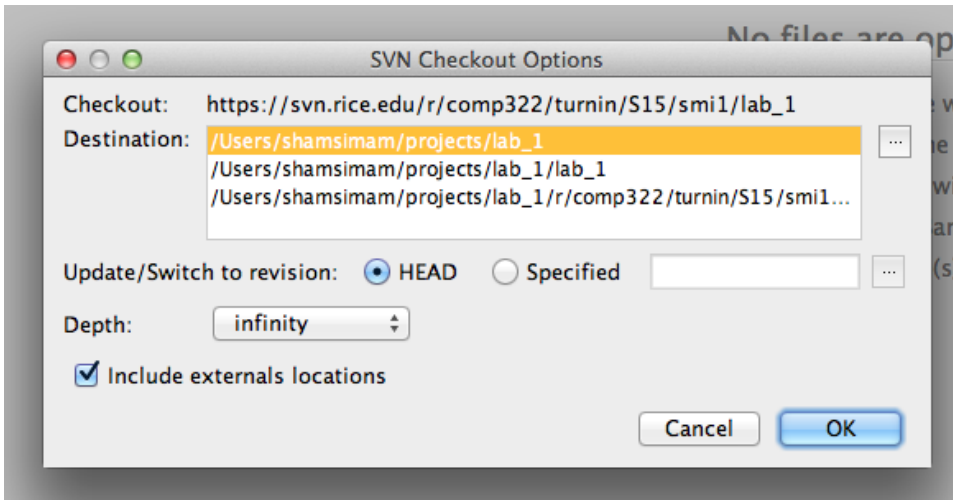
1. Prepare to checkout the lab_1 project from subversion



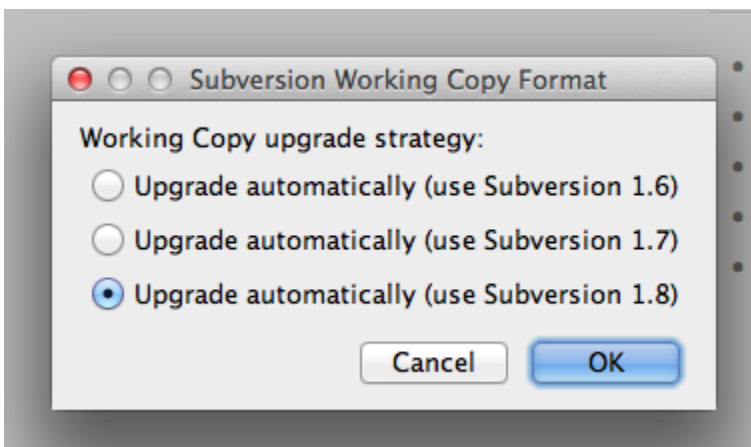
2. Use the "+" button to add the repository: https://svn.rice.edu/r/comp322/turnin/S15/NETID/lab_1/



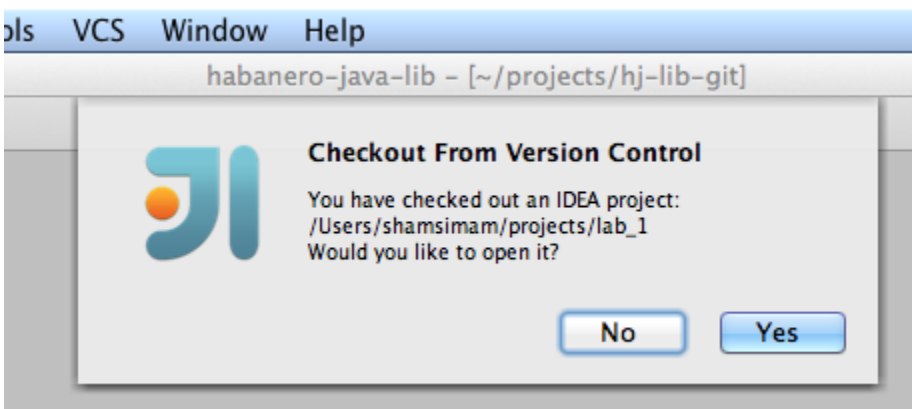
3. Confirm the directory where the directory where the project will be downloaded to.



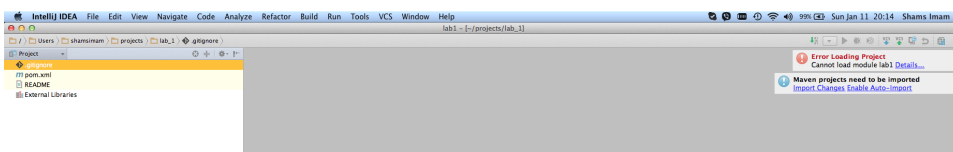
4. Confirm the subversion version to use for the directory format.



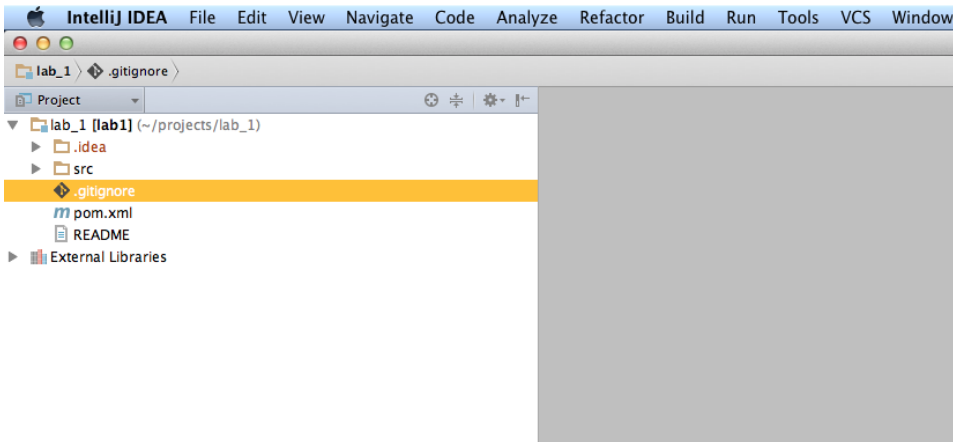
5. After the project is downloaded successfully, confirm to open the project.



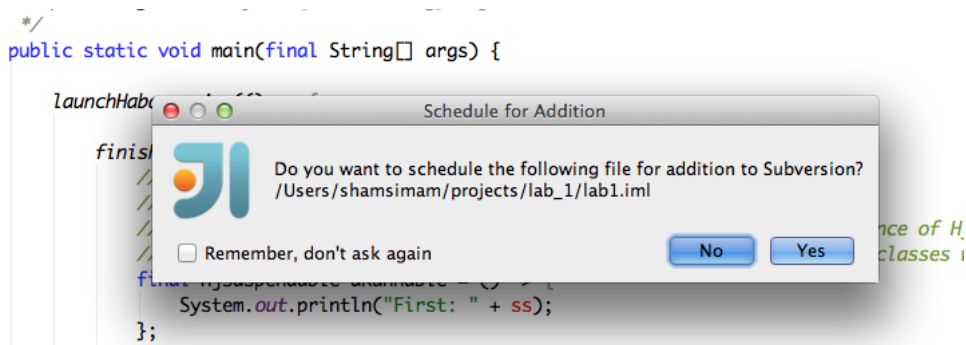
6. Import as a Maven project. Right-click pom.xml, and select "Add as Maven Project". This option is towards the bottom of the options list. Once you have done that, again right-click on the same pom.xml file and you should now see a "Maven" option towards the bottom of the list. Click on Maven > Reimport to be sure IntelliJ has pulled in the JARs for this project. Finally, go to File > Project Structure and in the pop up select "Modules" from the left menu. You should see three JARs listed in the central pane: h2lib-cooperative:0.1.8, asm-all:5.0.3, and junit:3.8.2. Check the checkboxes next to each, hit "Apply" at the bottom right of the window, and close the window by clicking "OK".



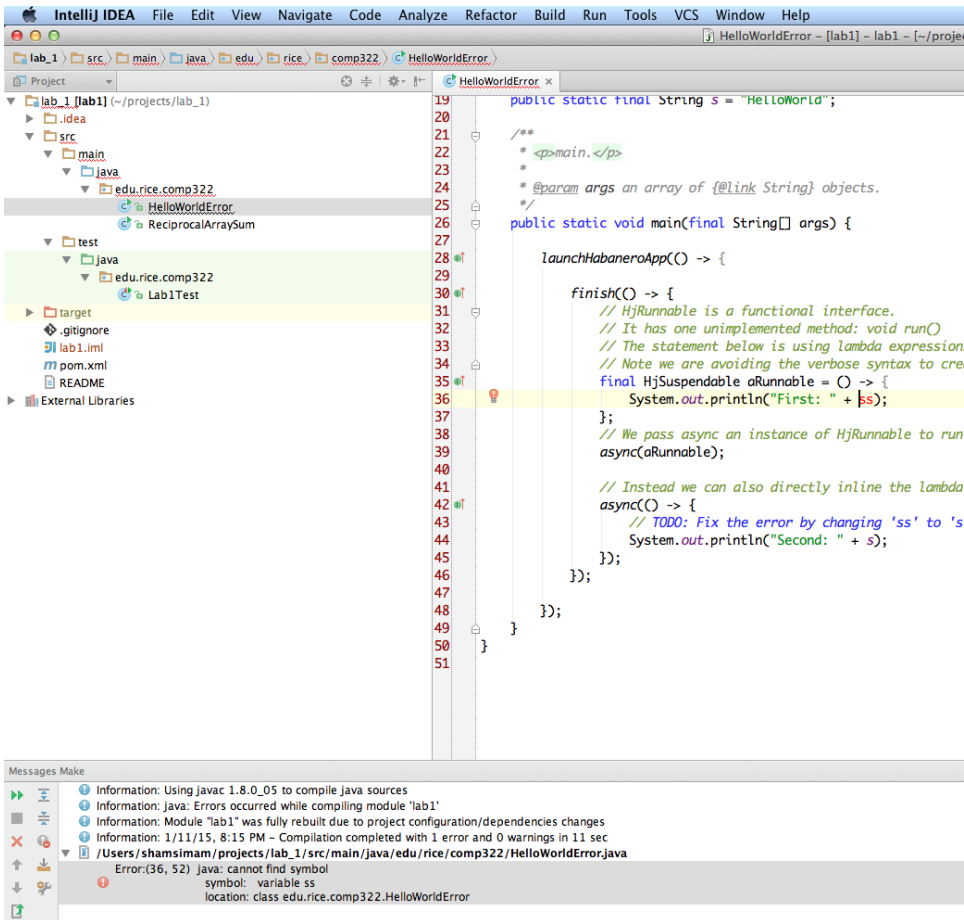
7. Check the appropriate JDK is selected. Navigate to File > Project Structure and verify that in the "Project" pane you have \1.8" selected as the \Project SDK.
8. Initial directory layout of the project.



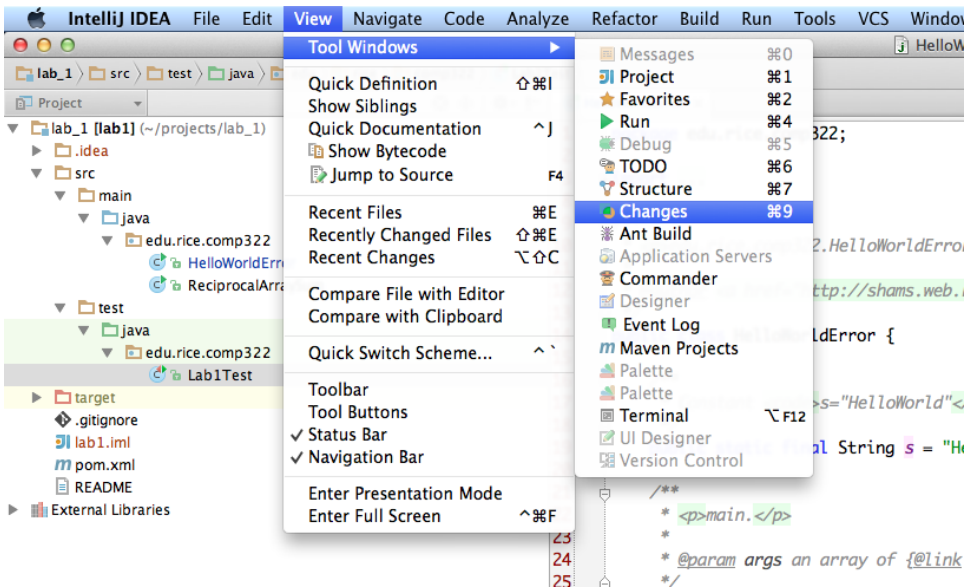
9. Click on "NO" when a popup shows up asking you whether you want to add an *.iml file to subversion.



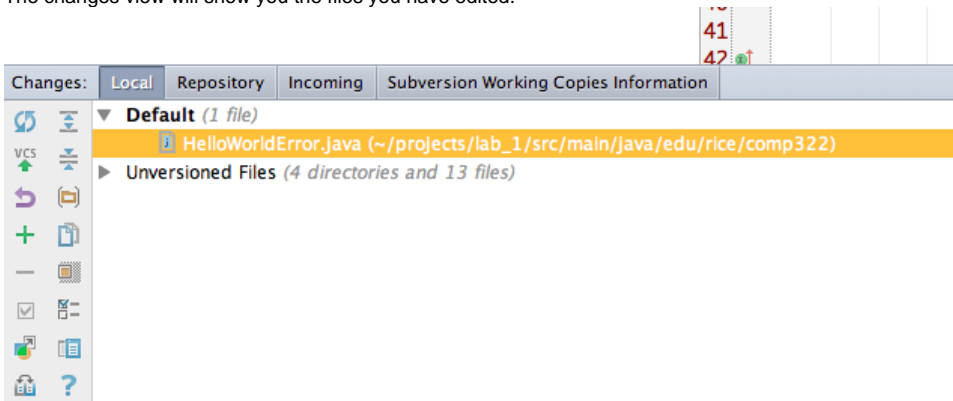
10. Open the HelloWorldError.java file by double clicking on it. Fix the error by editing the "ss" variable.



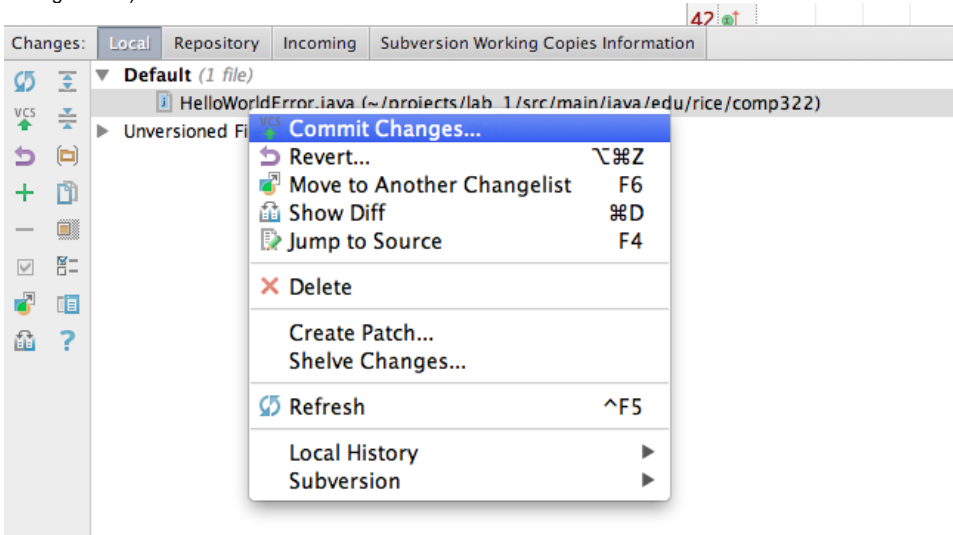
11. Open the "Changes View" so that you can see your edits.



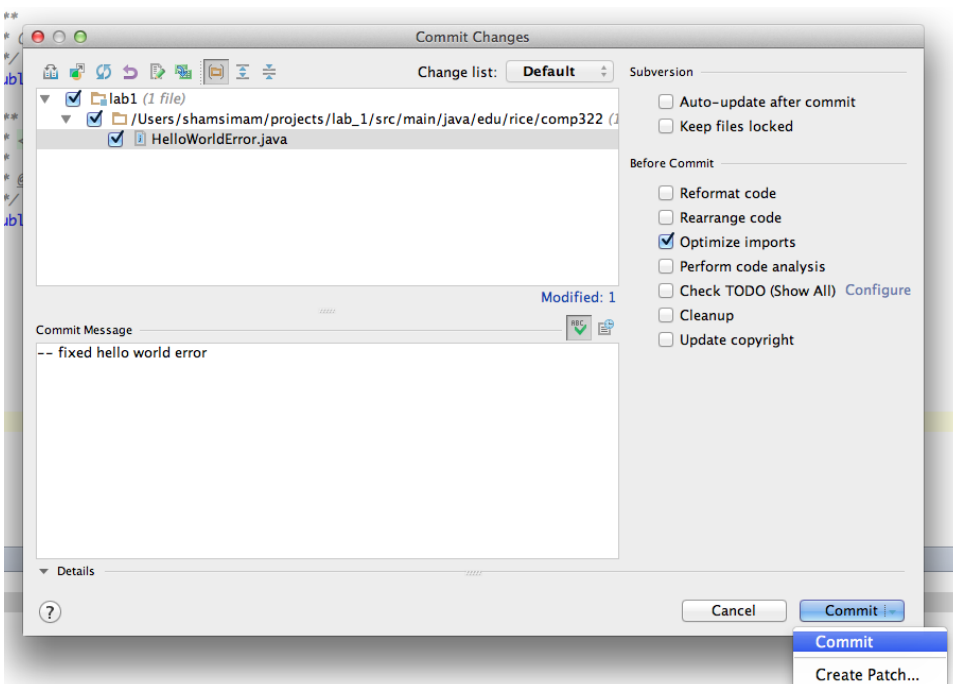
12. The changes view will show you the files you have edited.



13. Submit your changes to the subversion repository by committing the changed files (right-clicking on the Default or HelloWorldError.java file in the Changes view).



14. Add a commit message and commit the file.



- The screenshot shows the Subversion IDE interface. At the top, a commit message is entered in the "Commit Message" field: "1 file committed: --- fixed hello world error // Subversion: Committed revision 5008. (moments ago)". Below this, the "Files to Commit" list shows a single file: "C:\Users\user\Documents\hello world error\hello world error.txt". The file is listed with its path, a green status icon, and a size of 1 KB. The "Commit" button is visible at the bottom right of the interface.

- ```

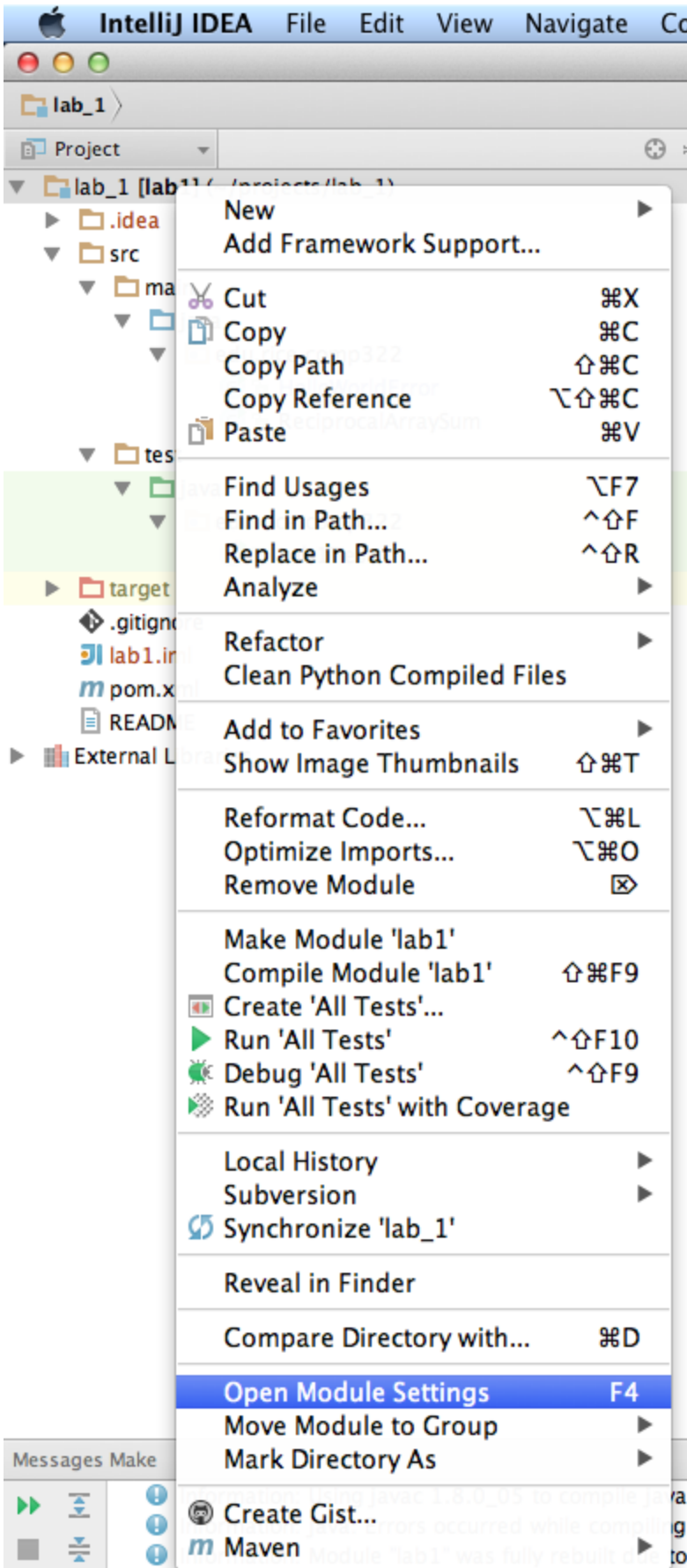
 */
 public static final String s = "HelloWorld";

 /**
 * <p>main.</p>
 *
 * @param args an array of {@link String}
 */
 public static void main(final String[] args) {
 launchHabaneroApp() -> {
 finish() -> {
 // HjRunnable is a Runnable
 // It has one unimplemented method
 // The statement block is the body of the method
 // Note we are able to use the Runnable interface
 final HjSuspendableRunnable runnable =
 new HjSuspendableRunnable() {
 @Override
 public void run() {
 System.out.println("HelloWorld");
 }
 };
 // We pass async a Runnable
 async(aRunnable);

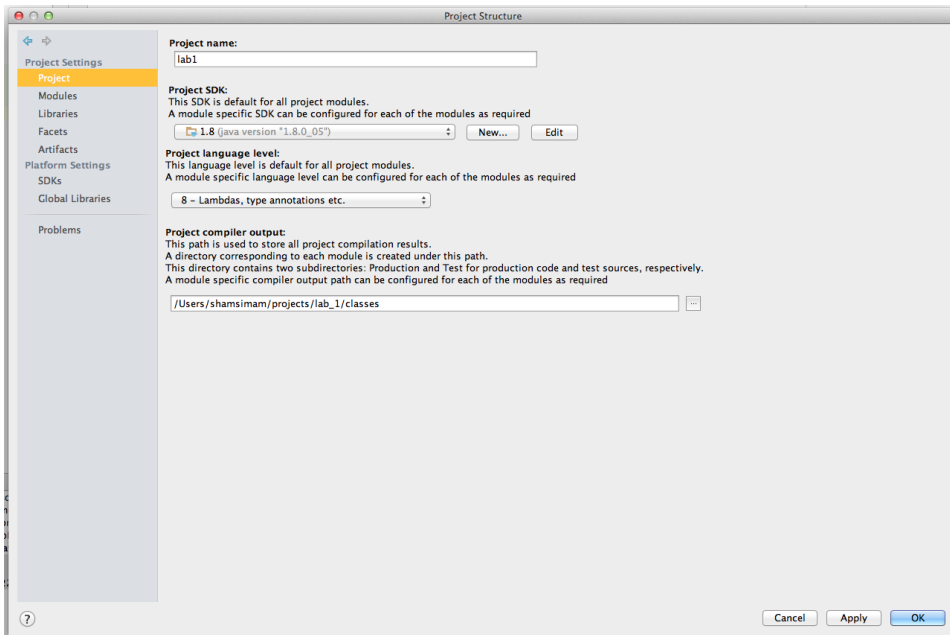
 // Instead we can use the Runnable interface
 async() -> {
 // TODO: Fix the Runnable interface
 System.out.println("HelloWorld");
 };
 };
 };
 }
}

```
- 
- The screenshot shows an IDE window with a Java file named 'HelloWorldError.java'. The code defines a class 'HelloWorldError' with a 'main()' method. A context menu is open over the 'main()' method, showing various actions. The 'Run' option is highlighted, indicating the user's intention to execute the code.

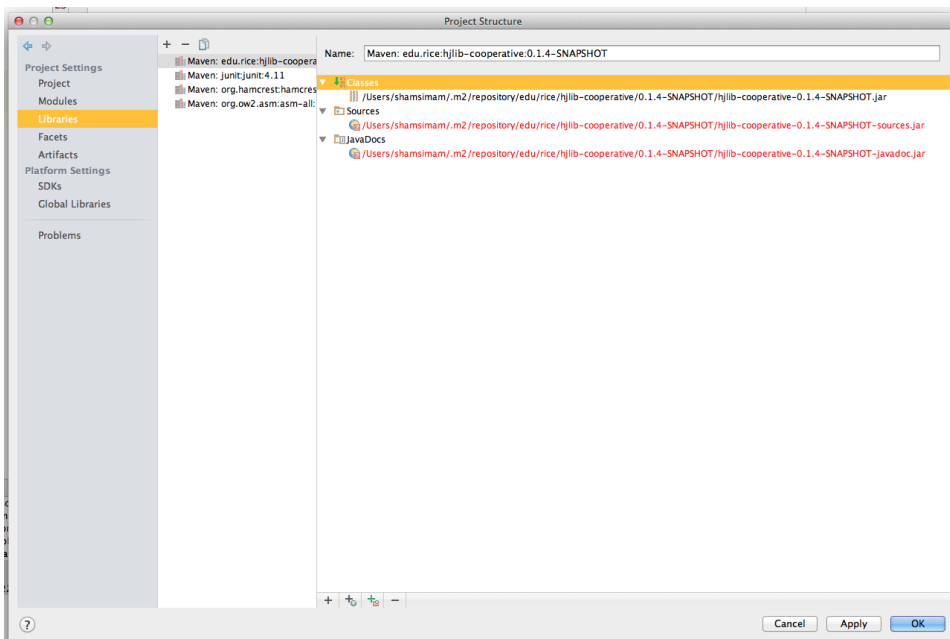
- ## 17. Open the Module Settings



18. Next ensure that the Project Language Level is set to 8.

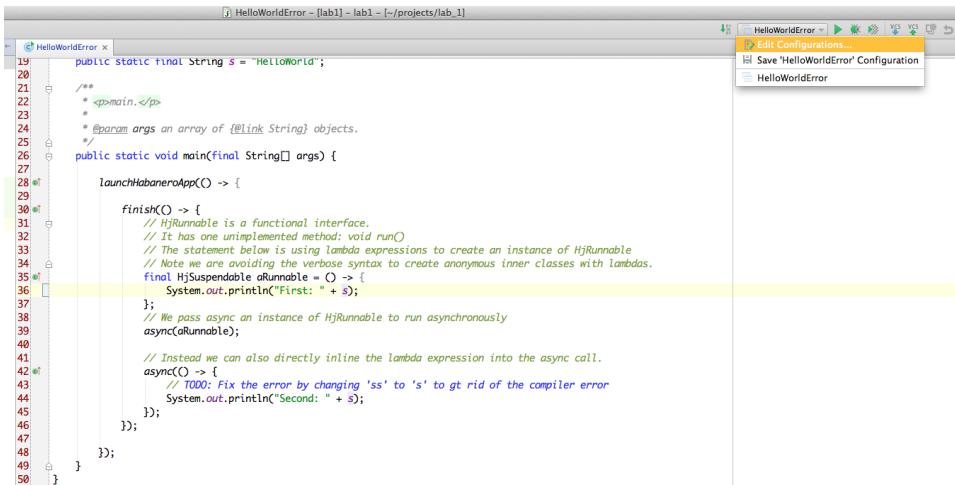


19. Click on the Libraries option to reveal the path for the hllib jar file. On my machine it is located at `/Users/shamsimam/.m2/repository/edu/rice/hllib-cooperative/0.1.4-SNAPSHOT/hllib-cooperative-0.1.4-SNAPSHOT.jar`

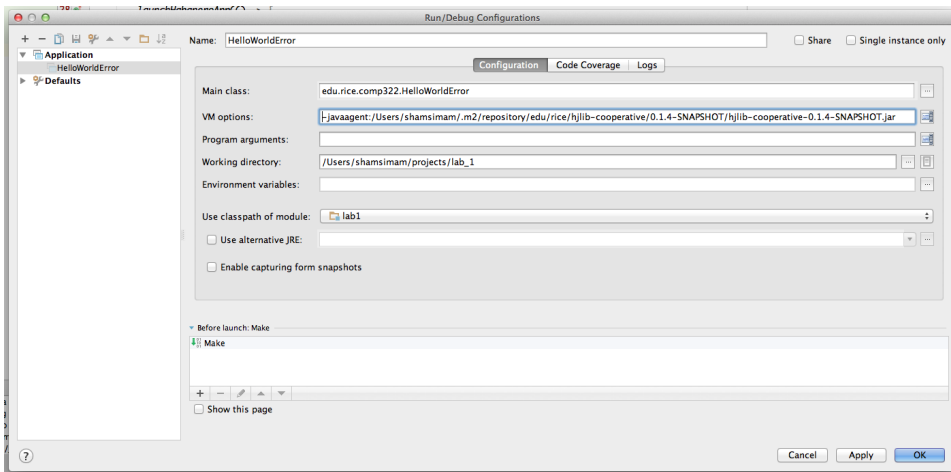


20. Now that we know the path, we are ready to edit the run configuration and insert the `javaagent` option.

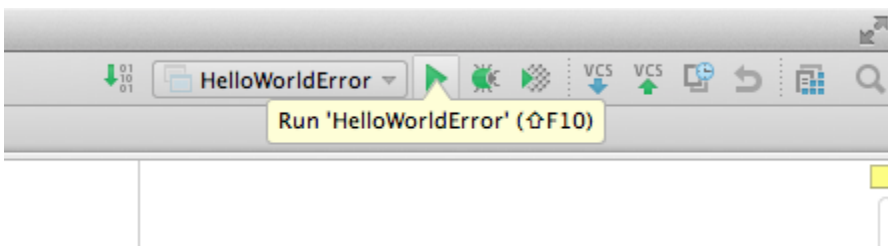




21. Under the VM Options textfield insert -javaagent:/Users/shamsimam/.m2/repository/edu/rice/hjlib-cooperative/0.1.4-SNAPSHOT/hjlib-cooperative-0.1.4-SNAPSHOT.jar text and click OK to save the configuration.
- 22.

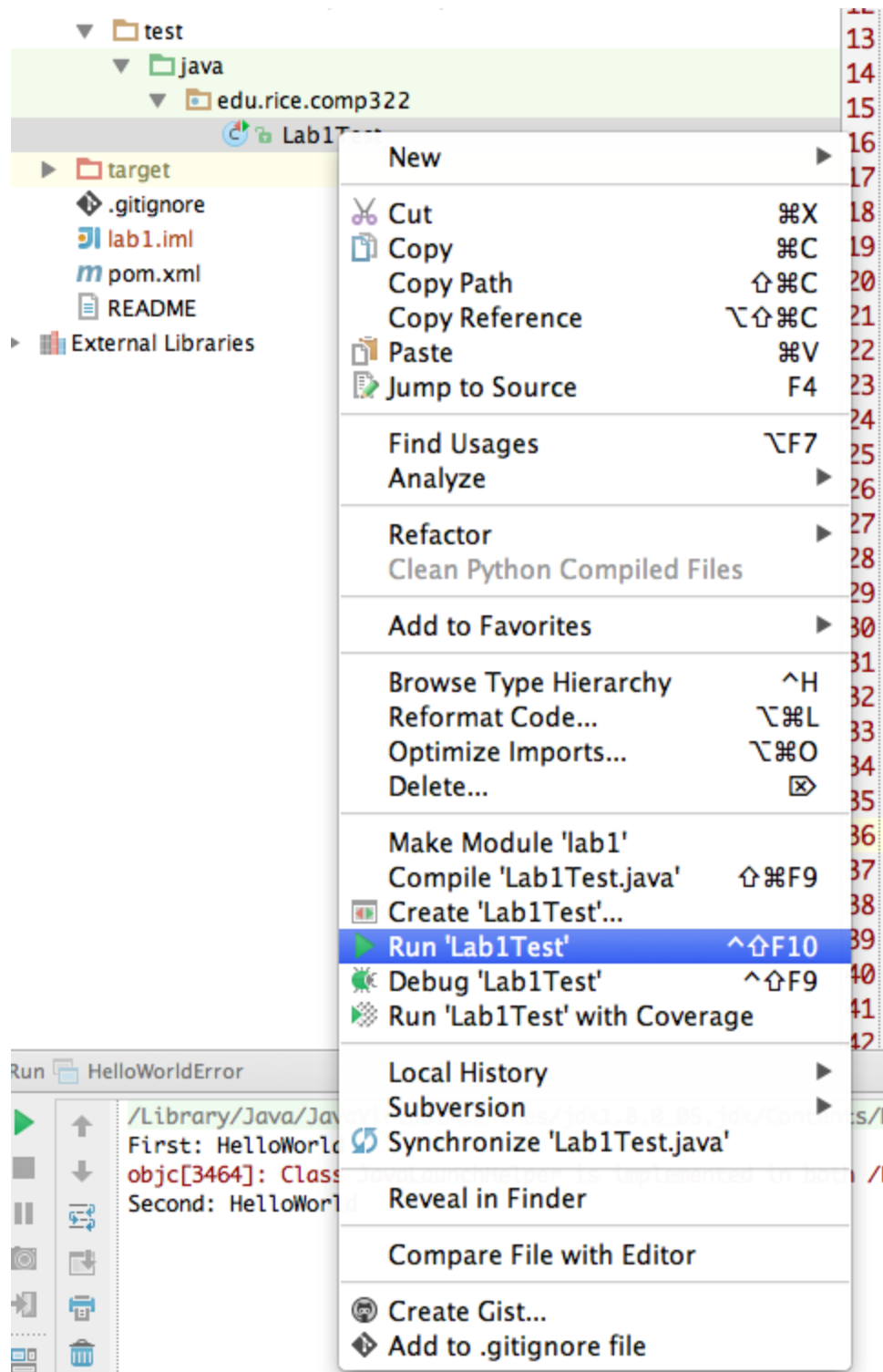


23. Now, click on the green play button to run the HelloWorldError.java file with the correct VM configurations. The class should be run successfully and you should see the output as below.

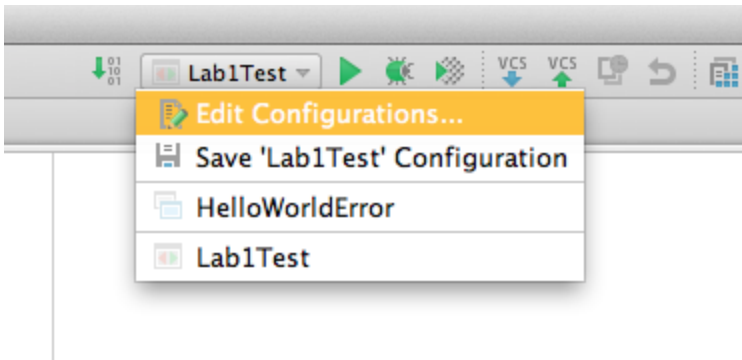




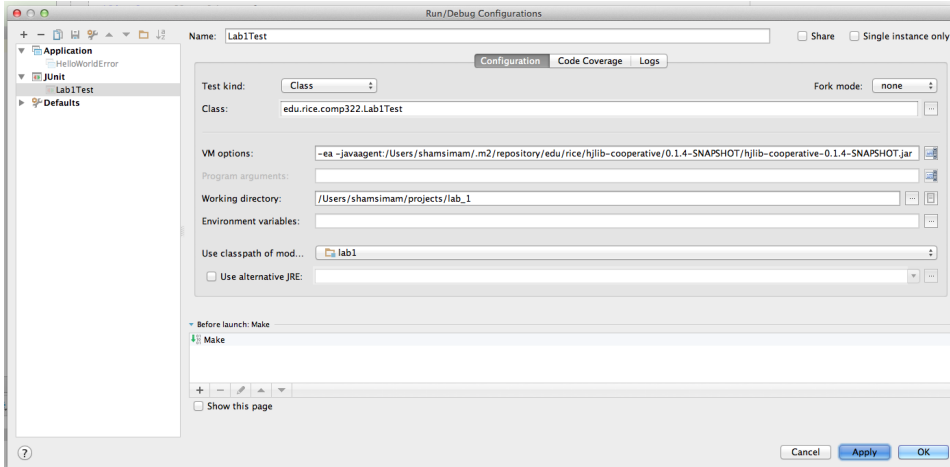
24. First attempt to run the unit test by right-clicking on the file and selecting Run. This will fail as the javaagent flag has not been set up.



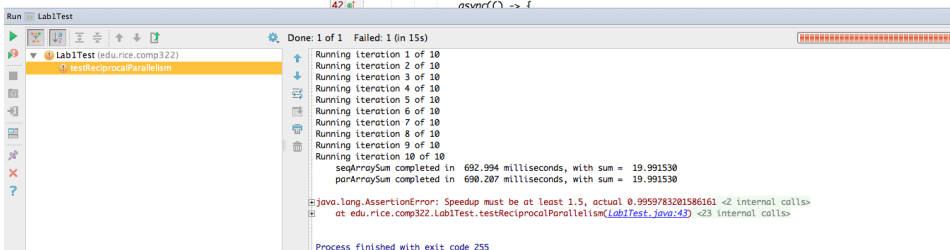
25. Prepare to edit the configurations for the unit test.



26. Like in Step 20, ensure that the javaagent flag has been correct passed as a VM option to run the Unit test.



27. Note the red bar displaying that the Unit test has failed. After you successfully complete the second part of the lab by correctly parallelizing the reciprocal sum, this unit test should pass and you should see a green bar.



Ask your instructor or TA if you run into any issues.