

Android Studio Hello World Java Application

Eric Rothstein

(Contact me at eric_rothstein@sutd.edu.sg)

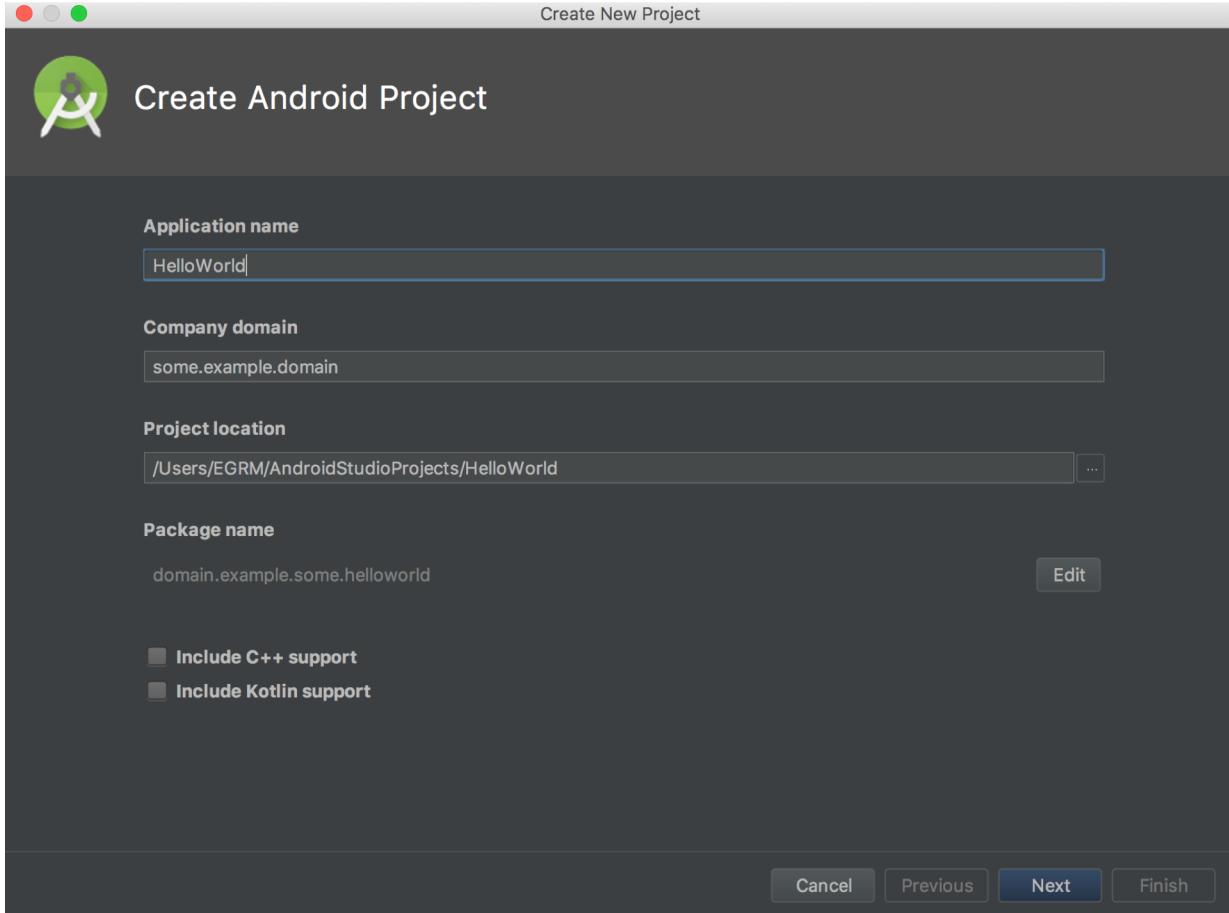
About this Guide

- If you follow this guide, you should not run into any problems (except the ones mentioned in this guide)
- If you run into other problems, then write me an e-mail and/or try to solve them on your own. Please mention how you got the problem in a way that I can replicate it (that is, try to write a guide similar to this one!)

Starting up

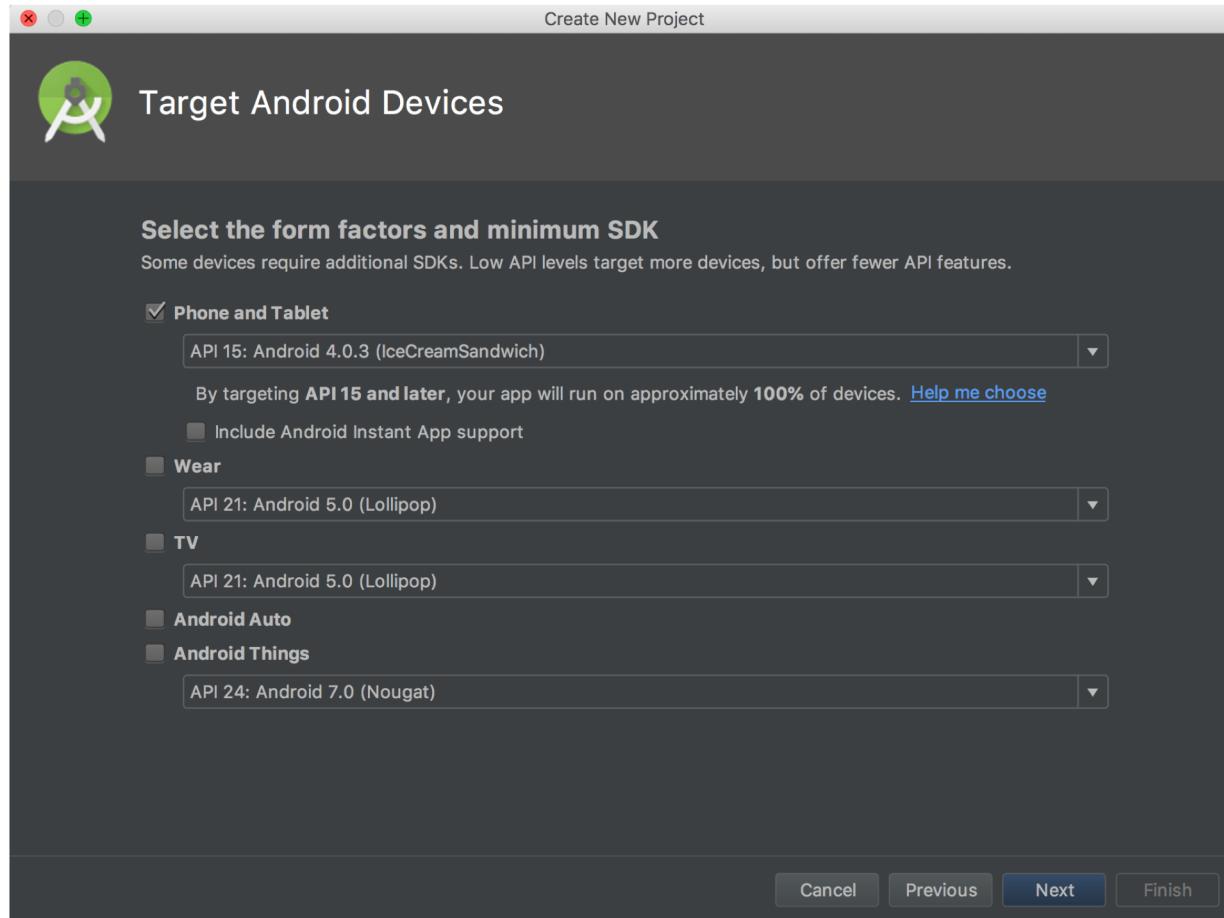
- This guide assumes the following
 - You already installed Android Studio
 - You already installed the Java SDK

Create a New Project

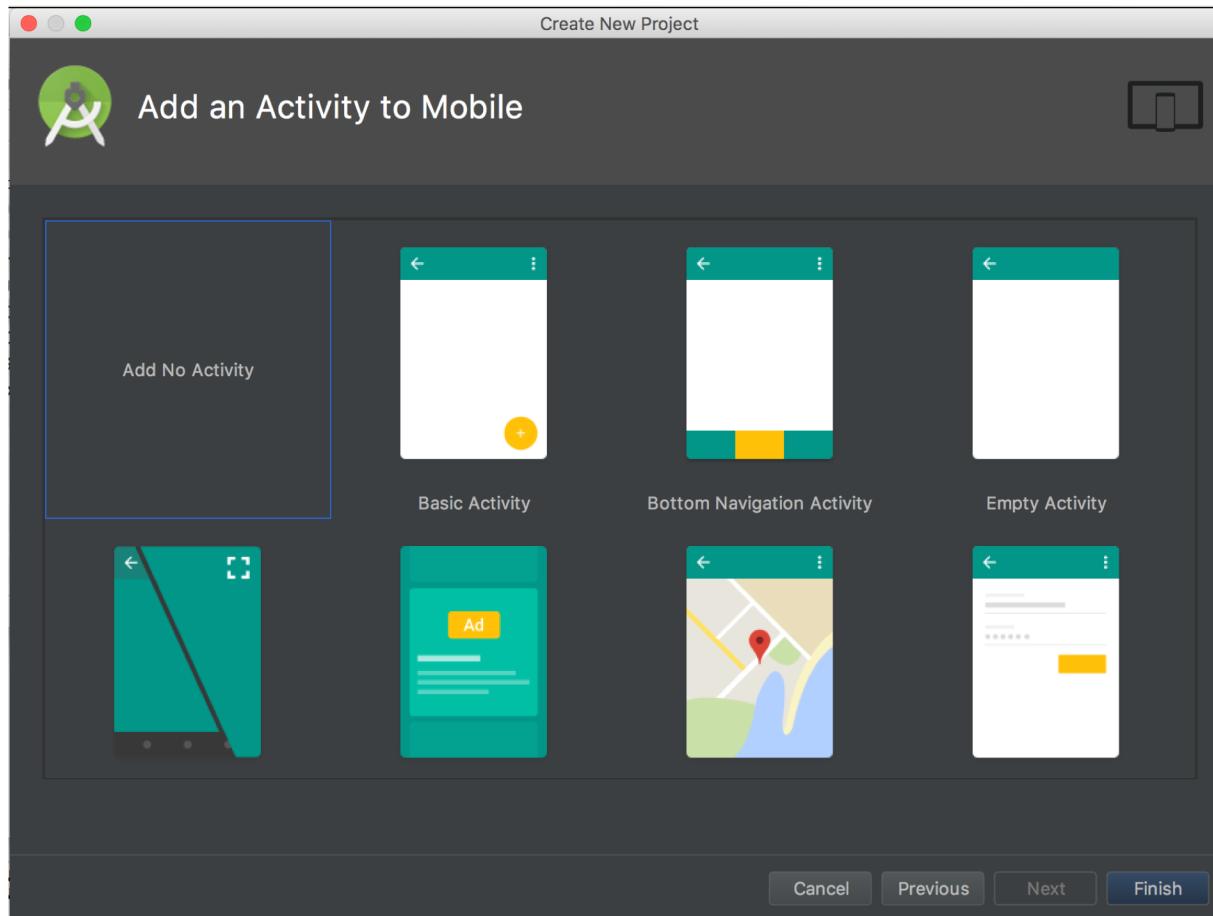


The names are just for illustration purposes, you can choose other names for the application and the domain.

Press Next...

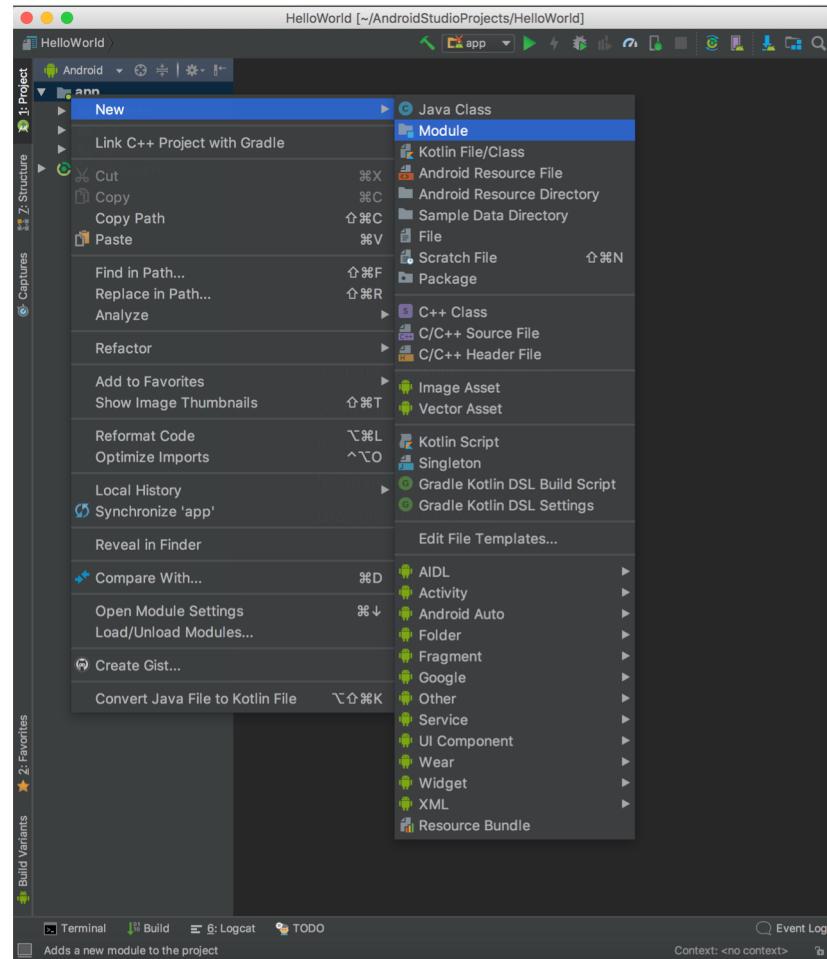


“Add No Activity” and Finish

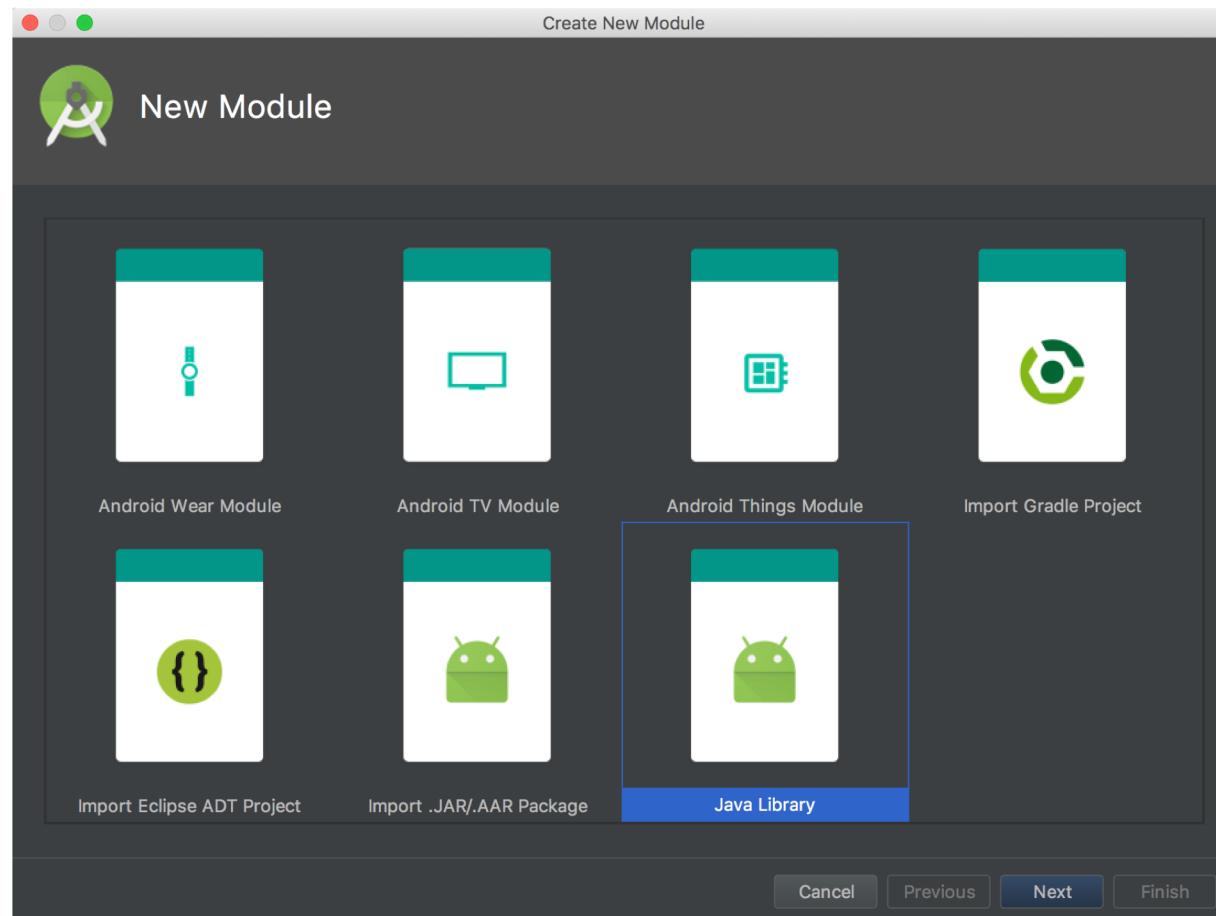


File>New>New Module

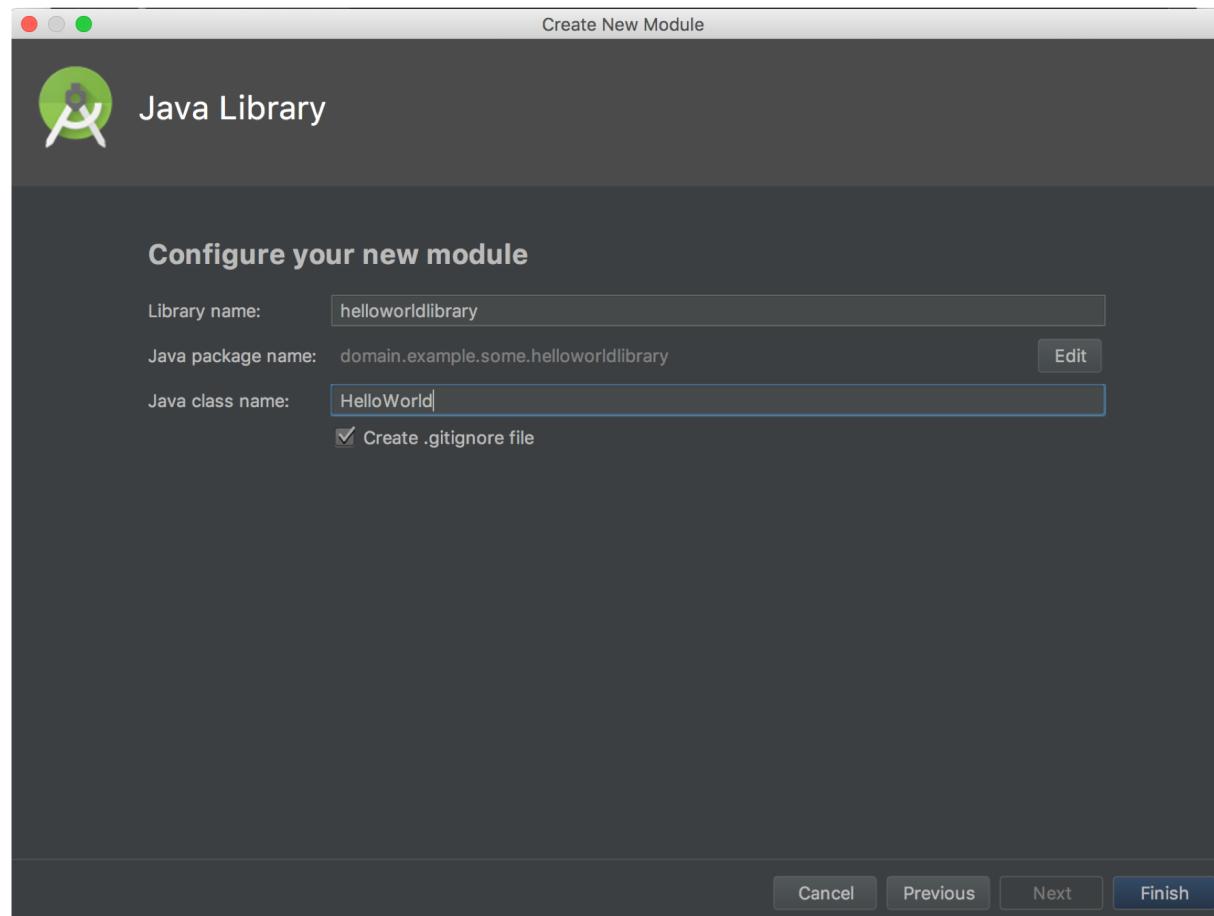
Open the Project view



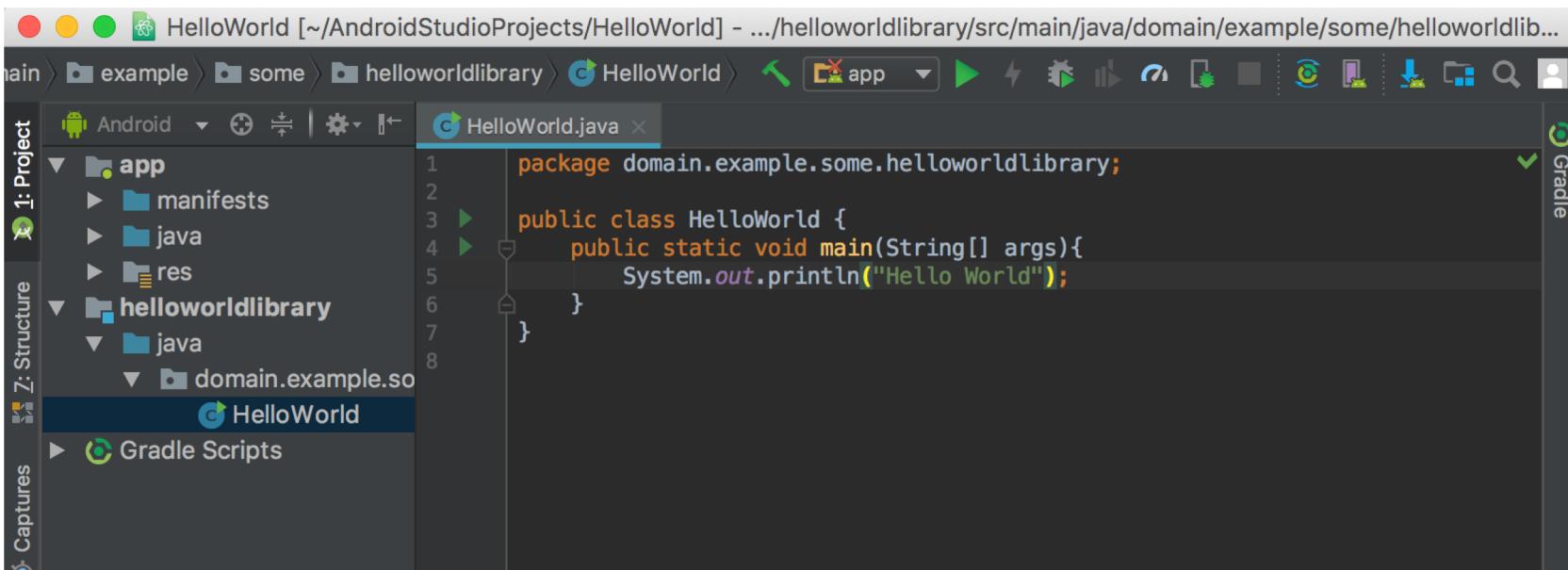
Scroll down and select “Java Library”



Fill out the names... these are just examples



Create a main method



The screenshot shows the Android Studio interface with the project structure and code editor visible.

Project Structure:

- app
- manifests
- java
- res
- helloworldlibrary

 - java
 - domain.example.some

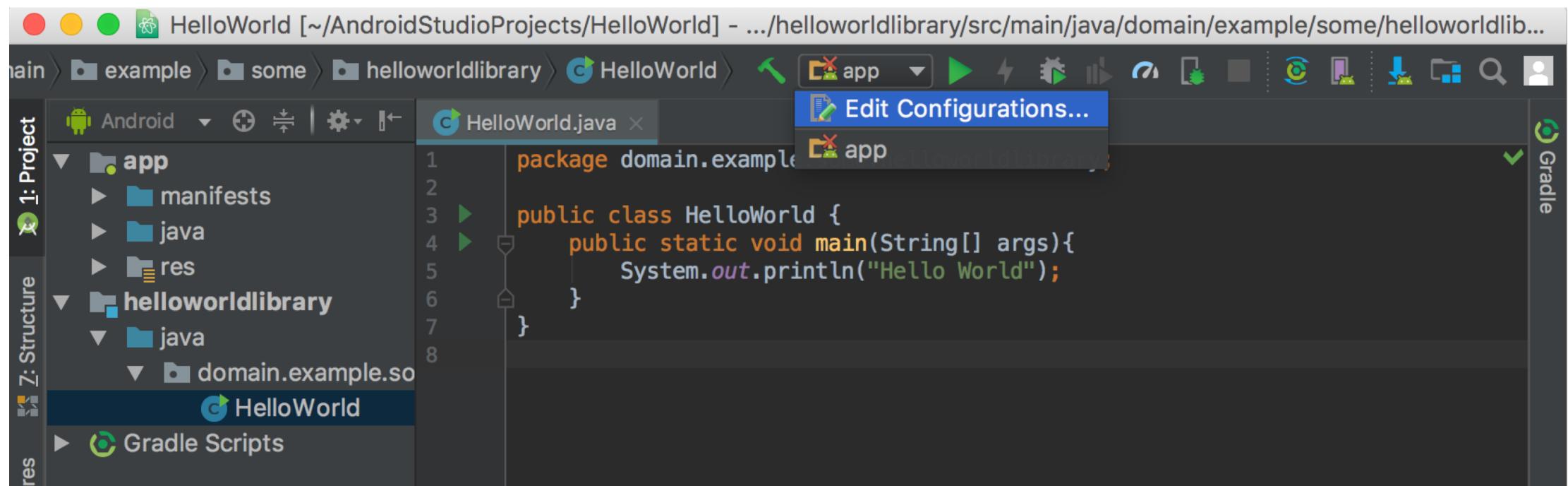
 - HelloWorld

- Gradle Scripts

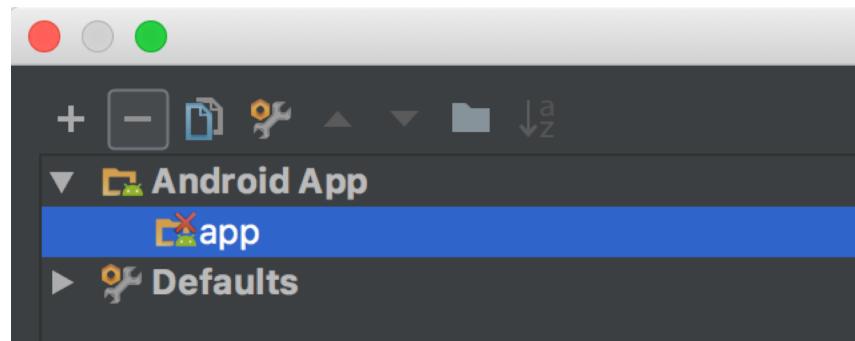
HelloWorld.java Content:

```
1 package domain.example.some.helloworldlibrary;
2
3 public class HelloWorld {
4     public static void main(String[] args){
5         System.out.println("Hello World");
6     }
7 }
8
```

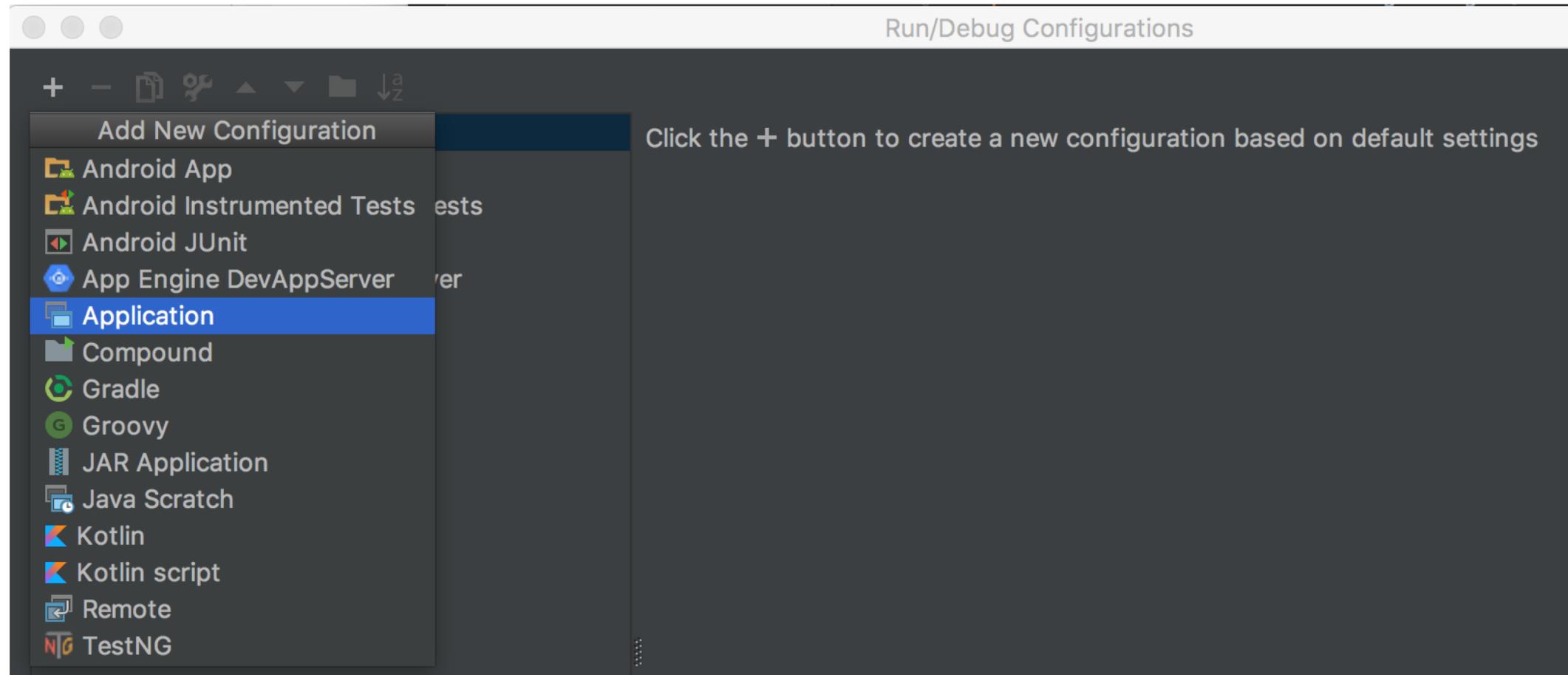
Edit Configurations...



Use – to delete the Android App “app” config



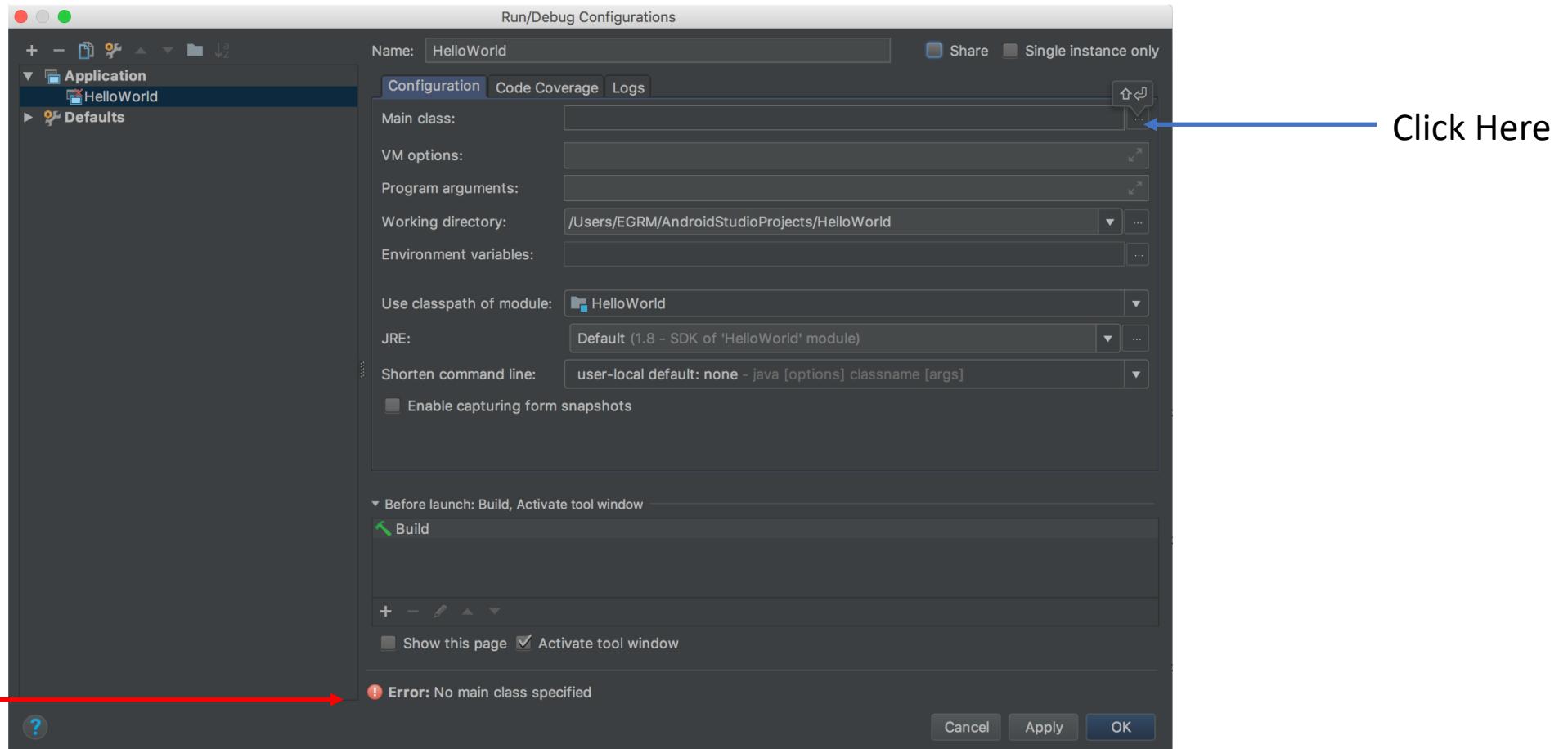
Use + to “Add New Configuration>Application”



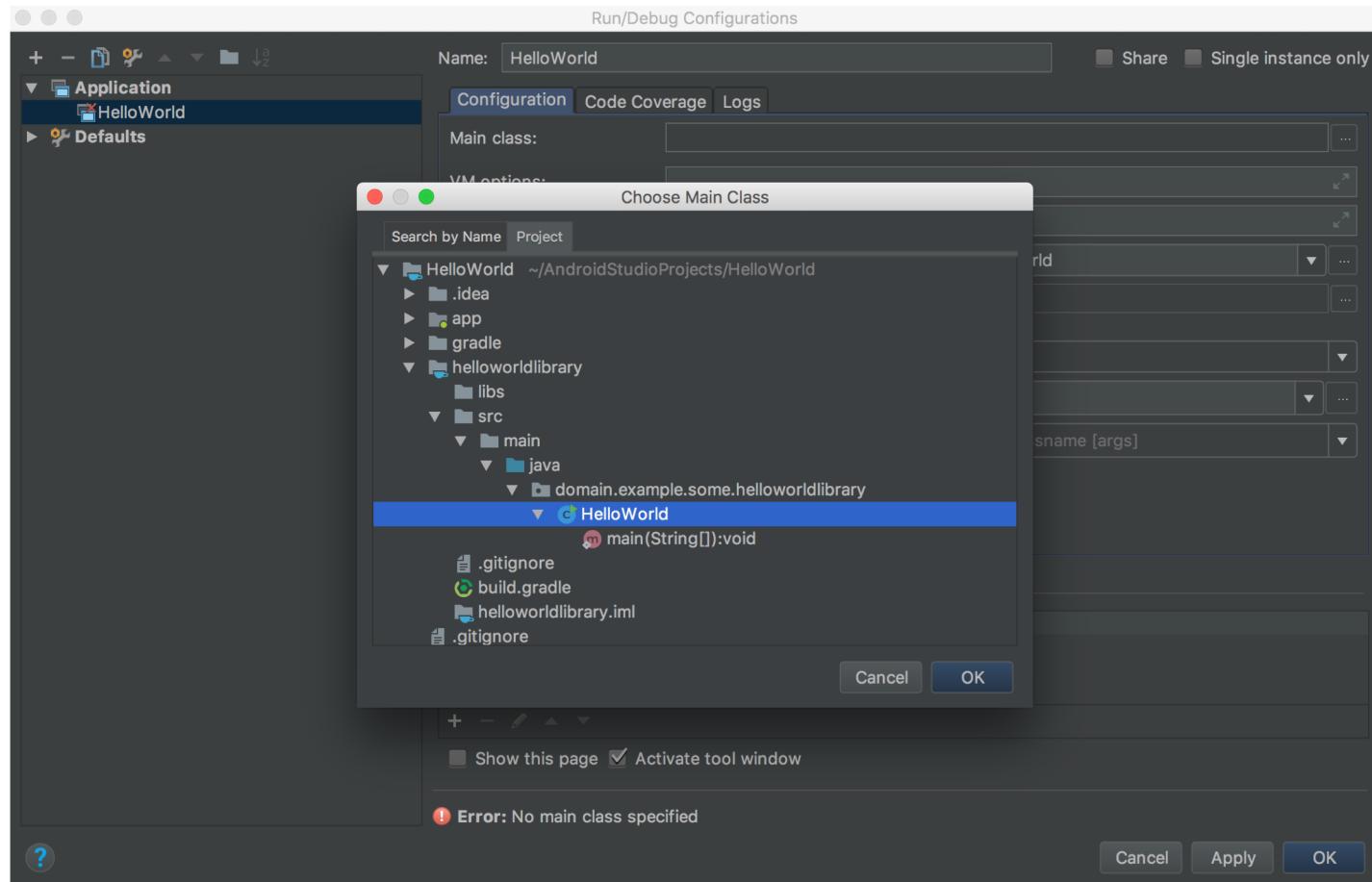
Disclaimer for the following slides

- Things might differ a bit for you in the following slides, but ultimately ensure that...
 - The Main class is selected
 - The module is correctly specified

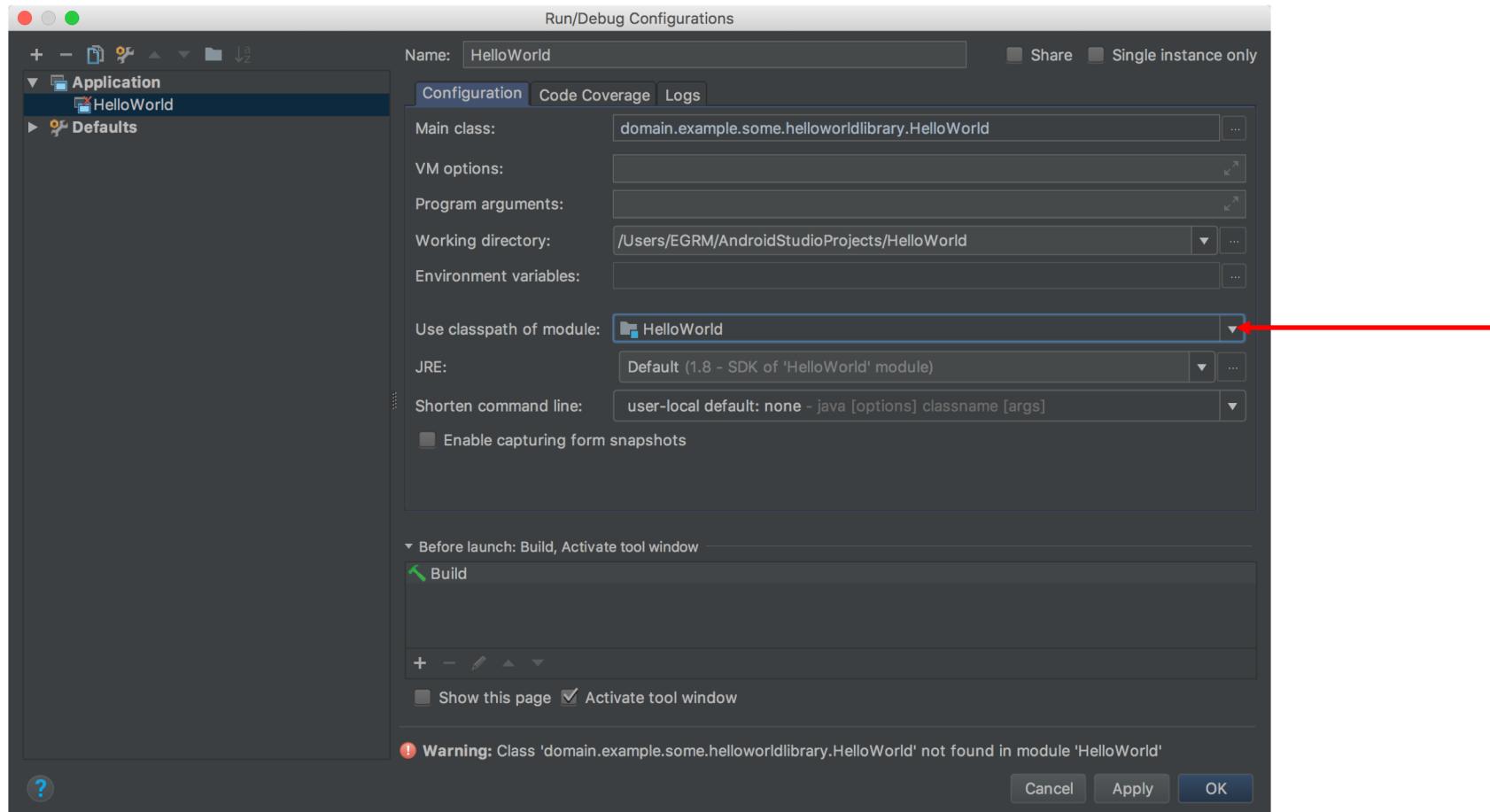
Click ... on Main class



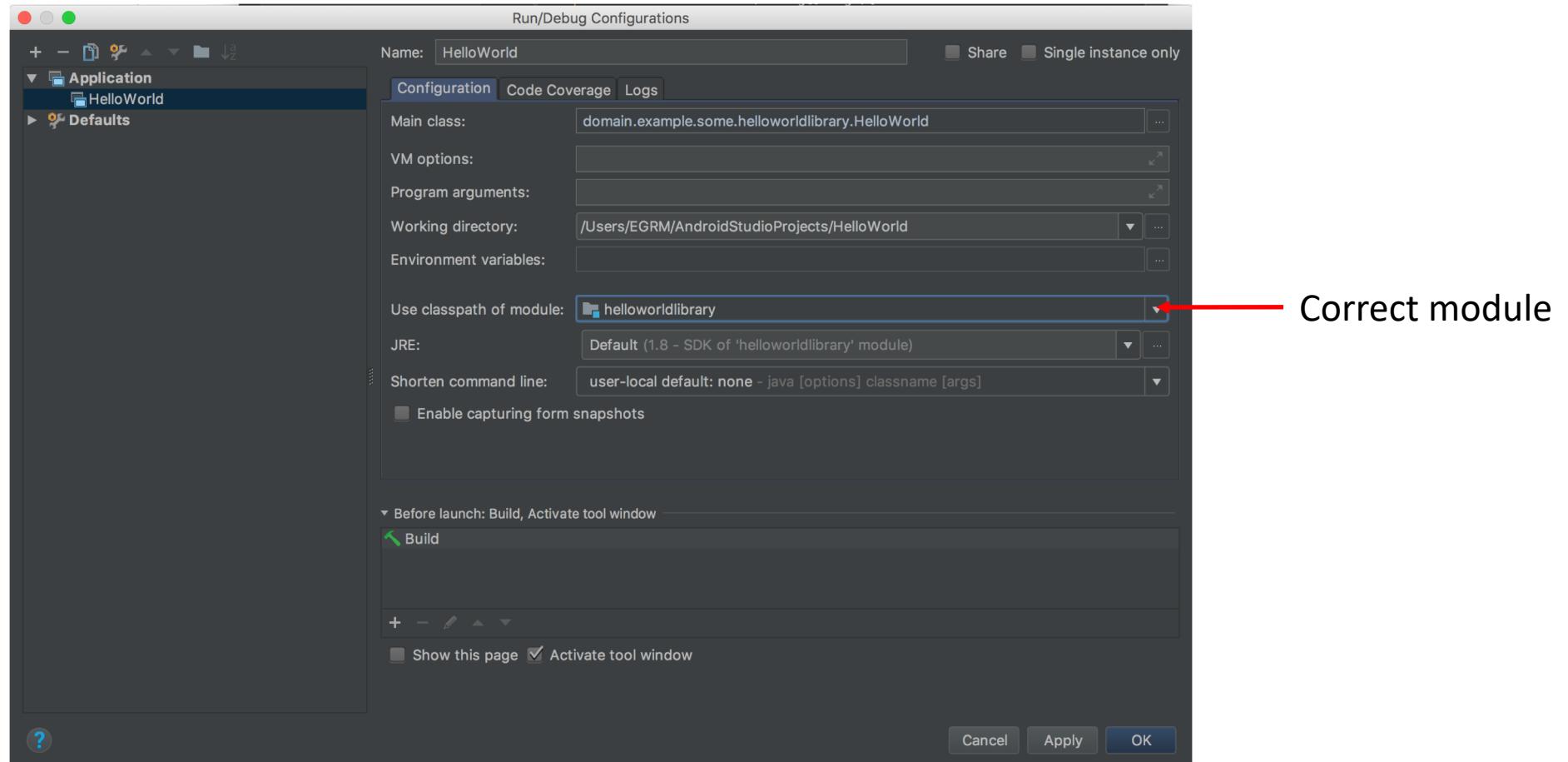
Find the “HelloWorld” Java class. Click OK



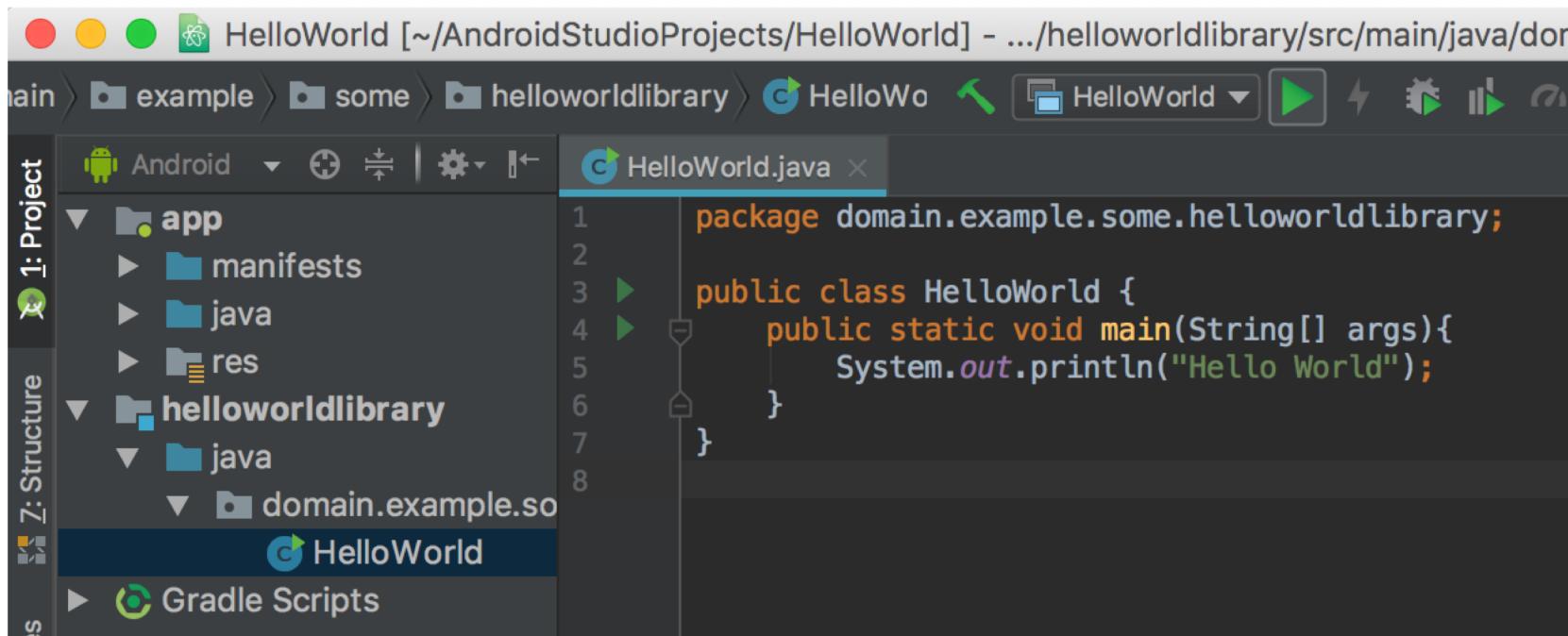
Warning! Change classpath... (see next slide)



Warning should be gone now...



Run with



The screenshot shows the Android Studio interface with the following details:

- Title Bar:** HelloWorld [~/AndroidStudioProjects/HelloWorld] - .../helloworldlibrary/src/main/java/domain/example/some/helloworldlibrary/HelloWorld.java
- Toolbar:** Includes icons for Run (green play button), Stop, Refresh, and others.
- Project Structure:** Shows the project tree with 1: Project (Android app) and Z: Structure (helloworldlibrary). The helloworldlibrary contains a java folder with domain.example.some.helloworldlibrary.HelloWorld.
- Code Editor:** Displays the content of `HelloWorld.java`:

```
1 package domain.example.some.helloworldlibrary;
2
3 public class HelloWorld {
4     public static void main(String[] args){
5         System.out.println("Hello World");
6     }
7 }
8 }
```

You should see...



The screenshot shows the Android Studio Logcat tool window. On the left is a vertical toolbar with various icons: a green play button, up and down arrows, a square, a double square, a double arrow, a camera, a dotted line, a monitor, a purple gear, and a red X. The main area displays the following text:

```
/Applications/Android Studio.app/Contents/jre/jdk/Contents/Home/bin/java" ...
Hello World

Process finished with exit code 0
```

Good Luck!

- If you ran into any problems, please document them and send them to me at [eric rothstein@sutd.edu.sg](mailto:eric_rothstein@sutd.edu.sg)