

Your First Java Code

JDK/Eclipse Installation

Java JDK and IDE Installation

- Install Java JDK first

Java is a programming language. The JDK is a development environment for building applications, applets, and components using the Java programming language.

- Install Eclipse then

An integrated development environment (IDE) is a software application that provides comprehensive facilities to computer programmers for software development.

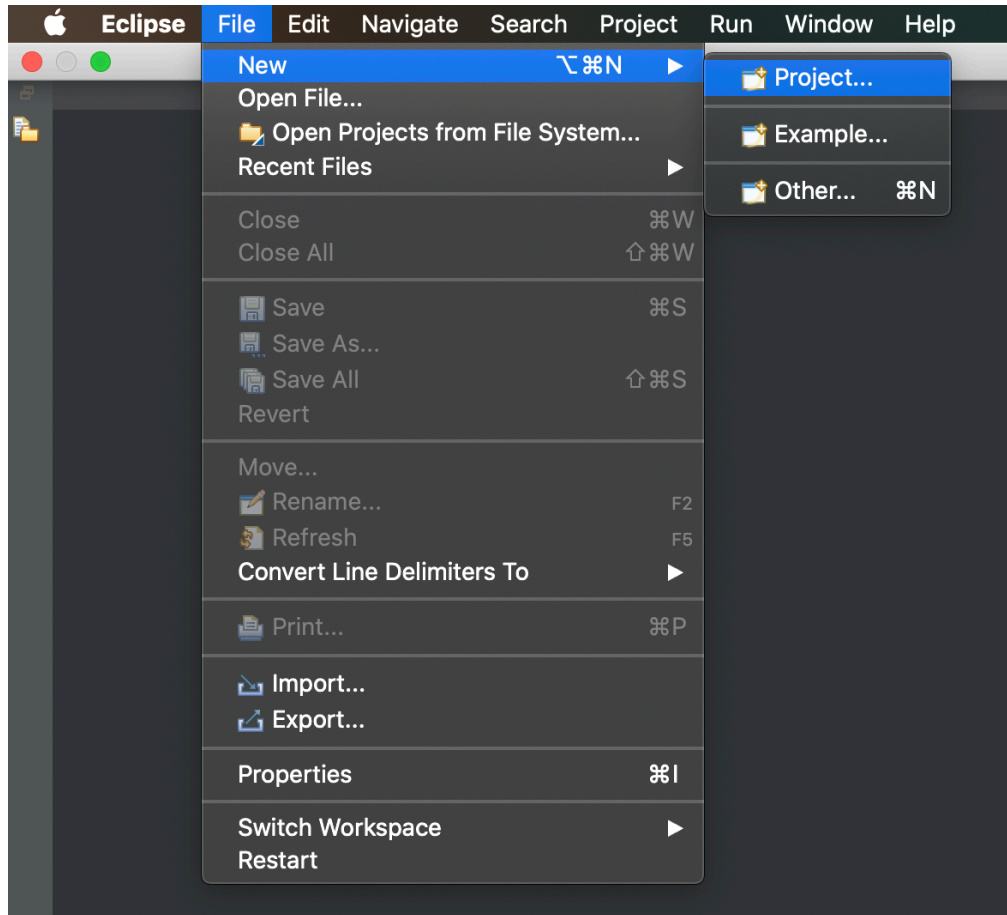
Follow the link below to finish the two steps above

<https://www.cs.cmu.edu/~pattis/15-1XX/common/handouts/javaeclipseinstallation.html>

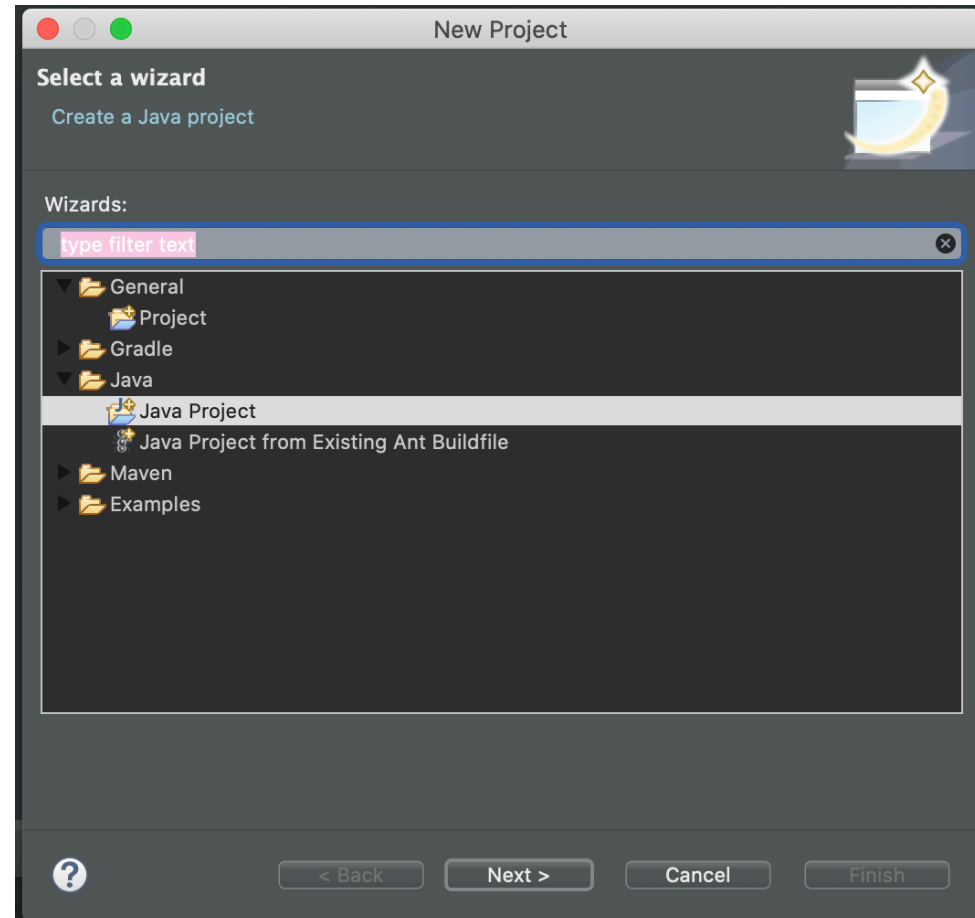
After that, go to your newly installed eclipse app and follow next pages to create your first code

Start your first Java Project

Go to the top tool bar, choose File->New->Project

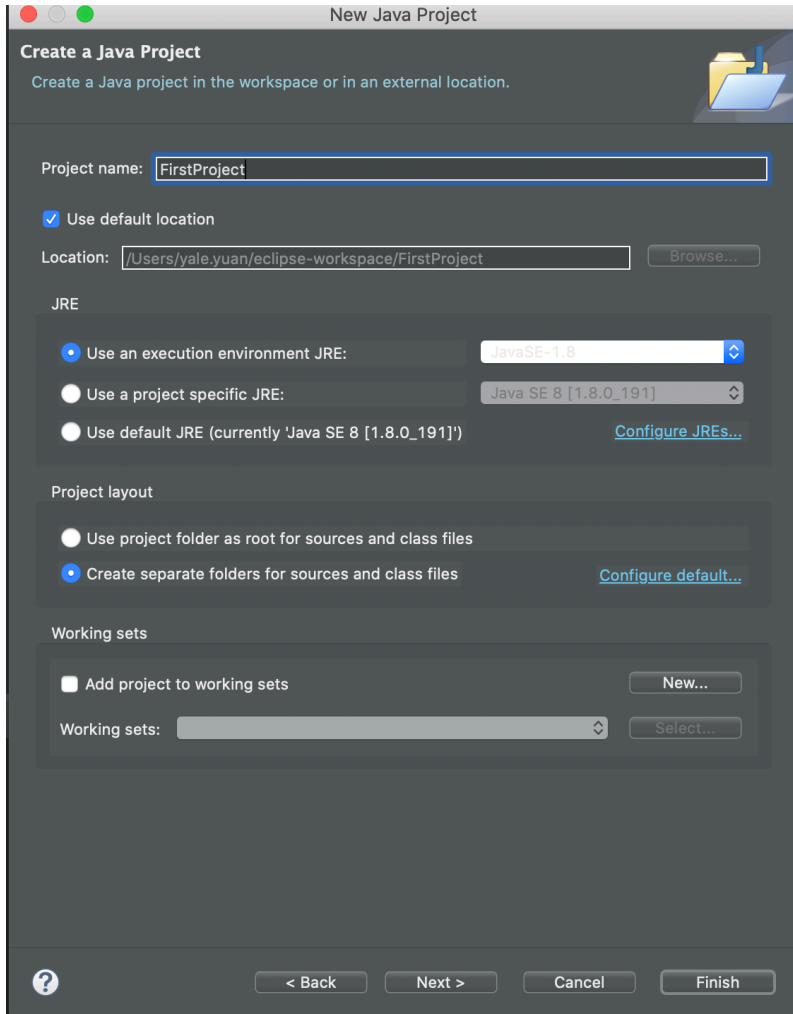


Select Java Project, click Next



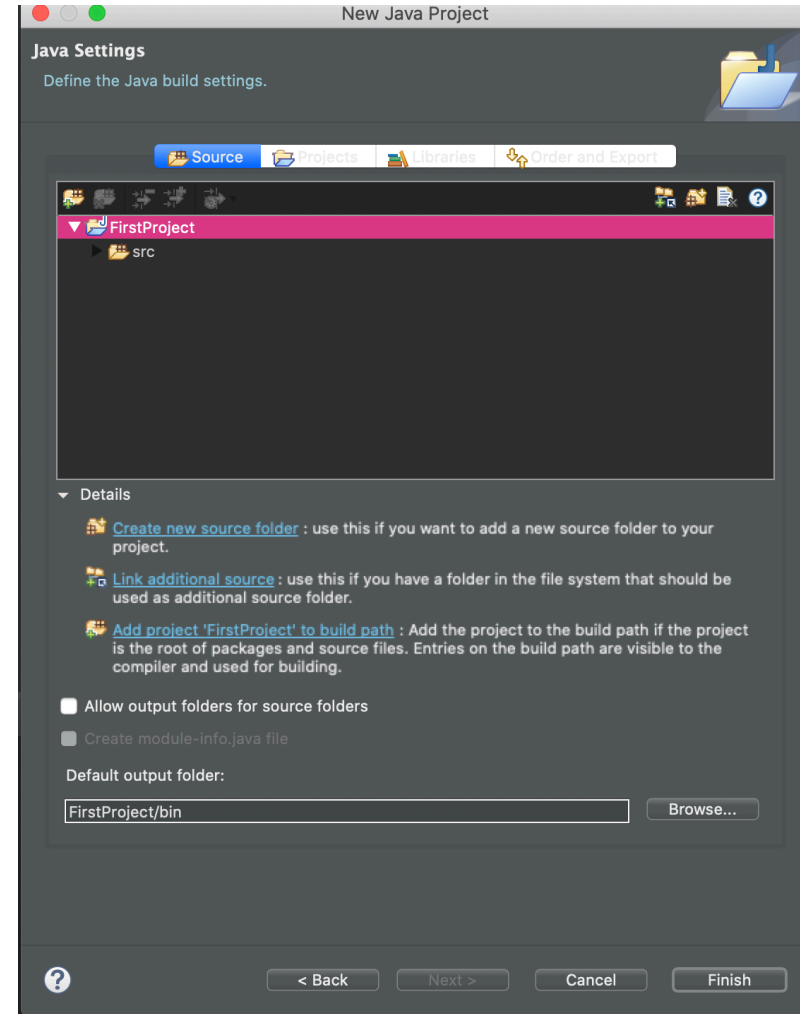
Start your first Java Project

Give your 1st project a name, click Next



The 'New Java Project' dialog box in Eclipse IDE. The title bar says 'New Java Project'. The main heading is 'Create a Java Project' with a subtitle 'Create a Java project in the workspace or in an external location.' Below this, there is a text field for 'Project name:' containing 'FirstProject'. A checkbox 'Use default location' is checked. The 'Location:' field shows the path '/Users/yale.yuan/eclipse-workspace/FirstProject' with a 'Browse...' button. Under the 'JRE' section, 'Use an execution environment JRE:' is selected, with a dropdown menu showing 'JavaSE-1.8'. Other options include 'Use a project specific JRE:' (set to 'Java SE 8 [1.8.0_191]') and 'Use default JRE (currently 'Java SE 8 [1.8.0_191]')' with a 'Configure JREs...' link. The 'Project layout' section has two radio buttons: 'Use project folder as root for sources and class files' (unselected) and 'Create separate folders for sources and class files' (selected), with a 'Configure default...' link. The 'Working sets' section has a checkbox 'Add project to working sets' (unchecked) and a 'New...' button. Below it, a 'Working sets:' dropdown menu is empty, with a 'Select...' button. At the bottom, there are buttons for '< Back', 'Next >', 'Cancel', and 'Finish'.

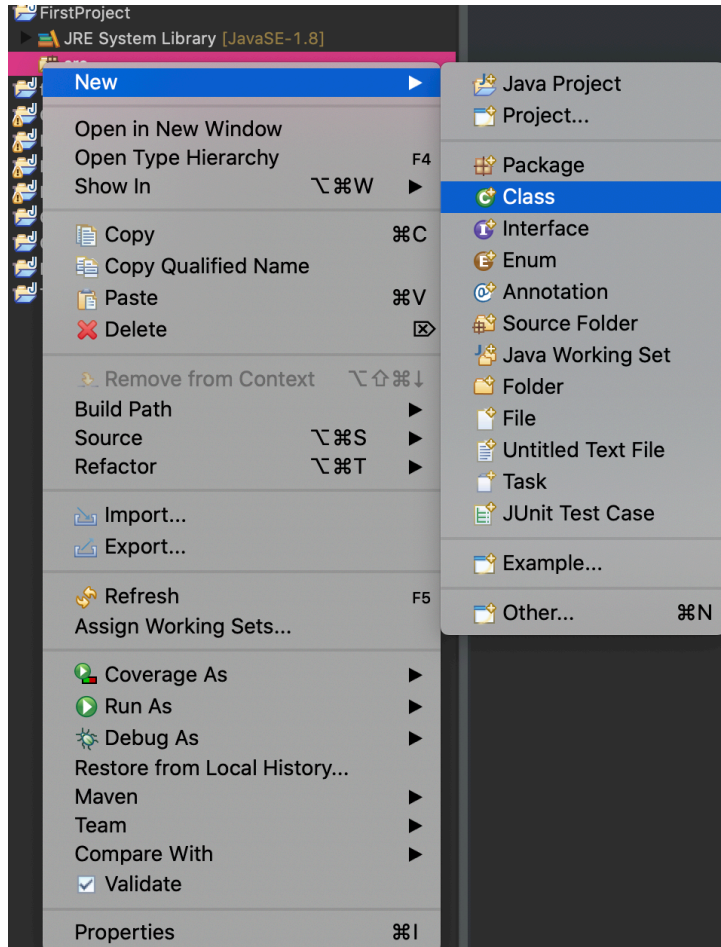
Click Finish



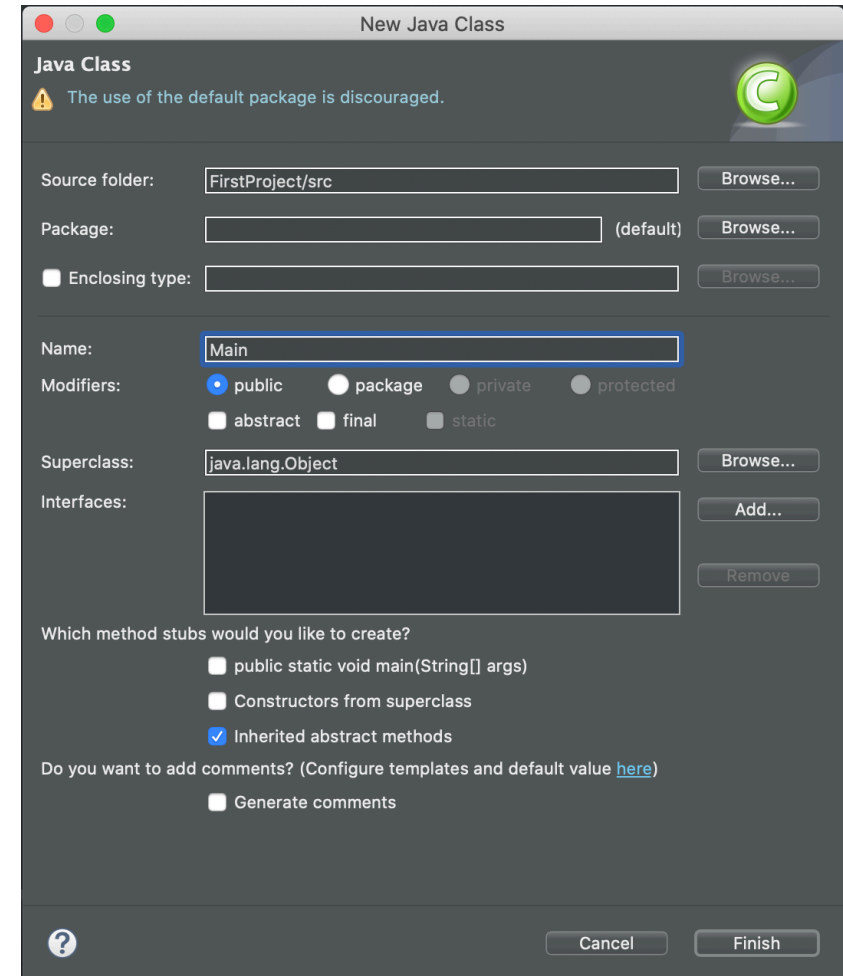
The 'Java Settings' dialog box in Eclipse IDE. The title bar says 'New Java Project'. The main heading is 'Java Settings' with a subtitle 'Define the Java build settings.' Below this, there are tabs for 'Source', 'Projects', 'Libraries', and 'Order and Export'. The 'Source' tab is active, showing a tree view with 'FirstProject' expanded, revealing a 'src' folder. Below the tree view, there is a 'Details' section with three links: 'Create new source folder' (with a description), 'Link additional source' (with a description), and 'Add project 'FirstProject' to build path' (with a description). There are two checkboxes: 'Allow output folders for source folders' (unchecked) and 'Create module-info.java file' (unchecked). The 'Default output folder:' field shows 'FirstProject/bin' with a 'Browse...' button. At the bottom, there are buttons for '?', '< Back', 'Next >', 'Cancel', and 'Finish'.

Start your first Java Project

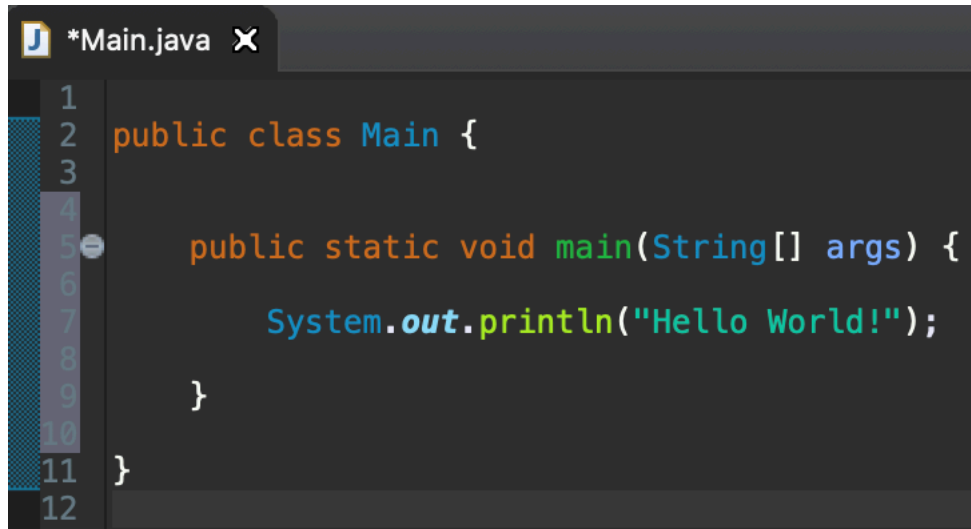
Right click src -> New -> Class



Give your first Class a name



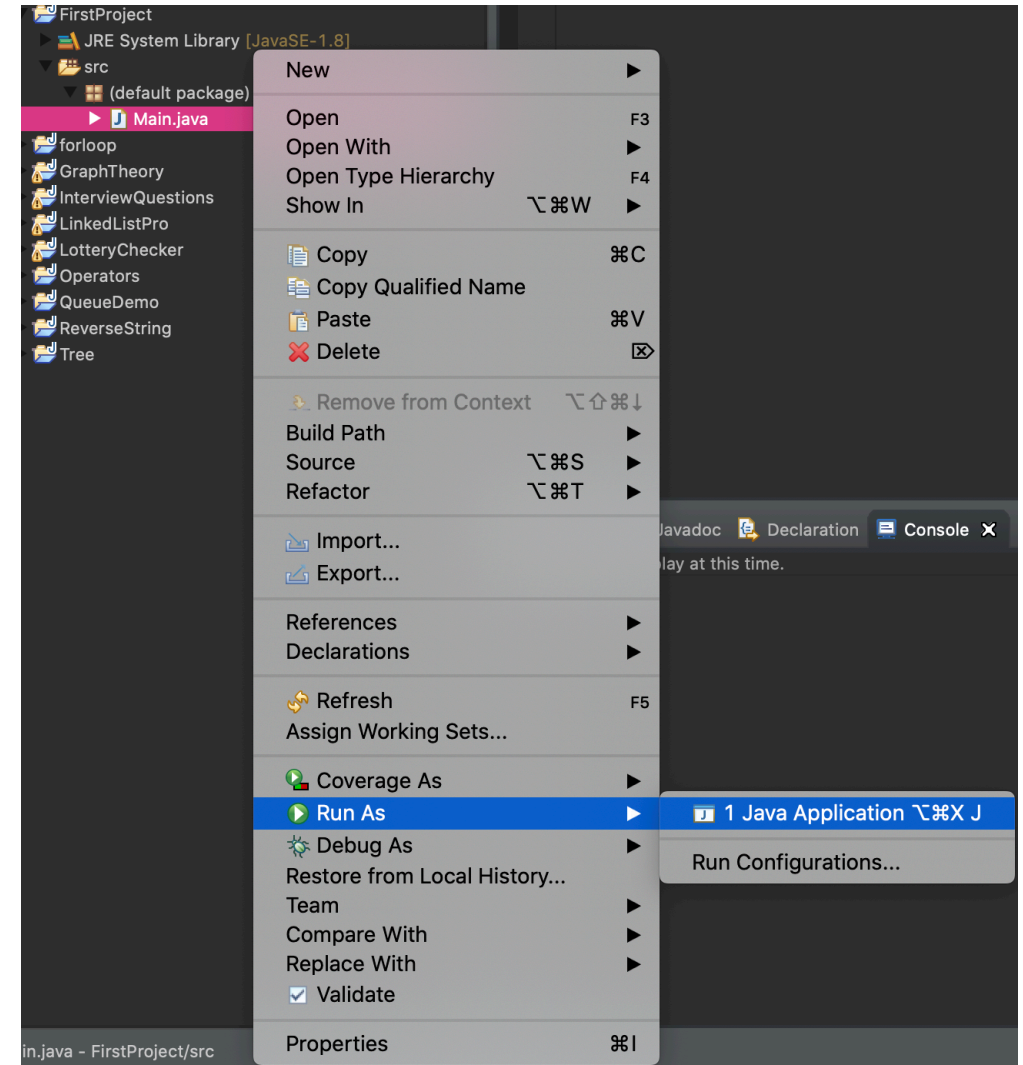
Print “Hello World!”



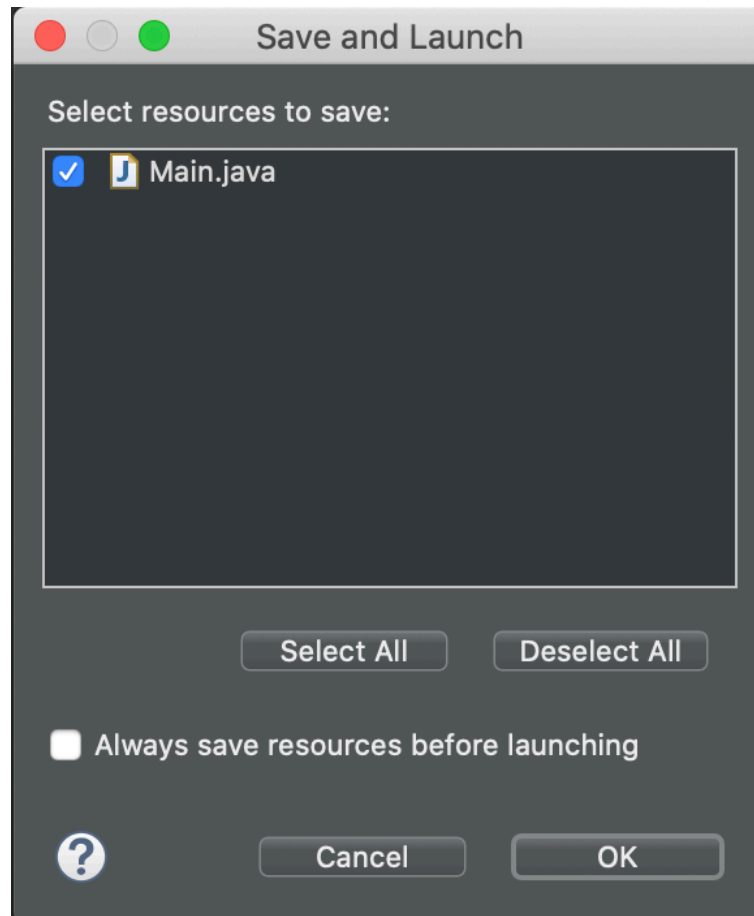
```
1 public class Main {
2
3
4     public static void main(String[] args) {
5
6         System.out.println("Hello World!");
7
8     }
9
10 }
11
12
```

Write the code, it's case sensitive. You can substitute “Hello World!” with whatever you want to print. Always remember to have a “” to wrap what you want to print, just like “Hello World!”.

Right click the Main.java, Run As -> Java Application



Print “Hello World!”



Choose OK, then in the Console, you will see
Hello World!(Or what you replace Hello World! with)

