

Eclipse Tutorial

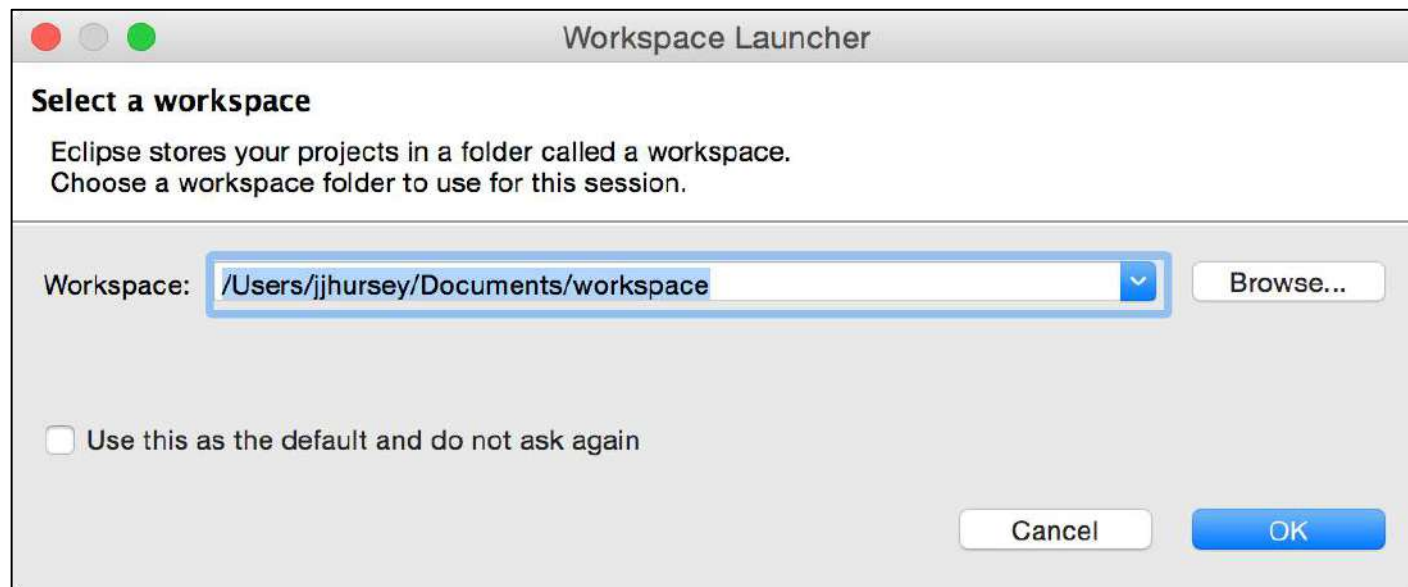
Starting a New Project in Eclipse (Hello World)

For more tutorials:

<http://cs.uwlax.edu/~jjhursey/teaching/tutorial/eclipse/>

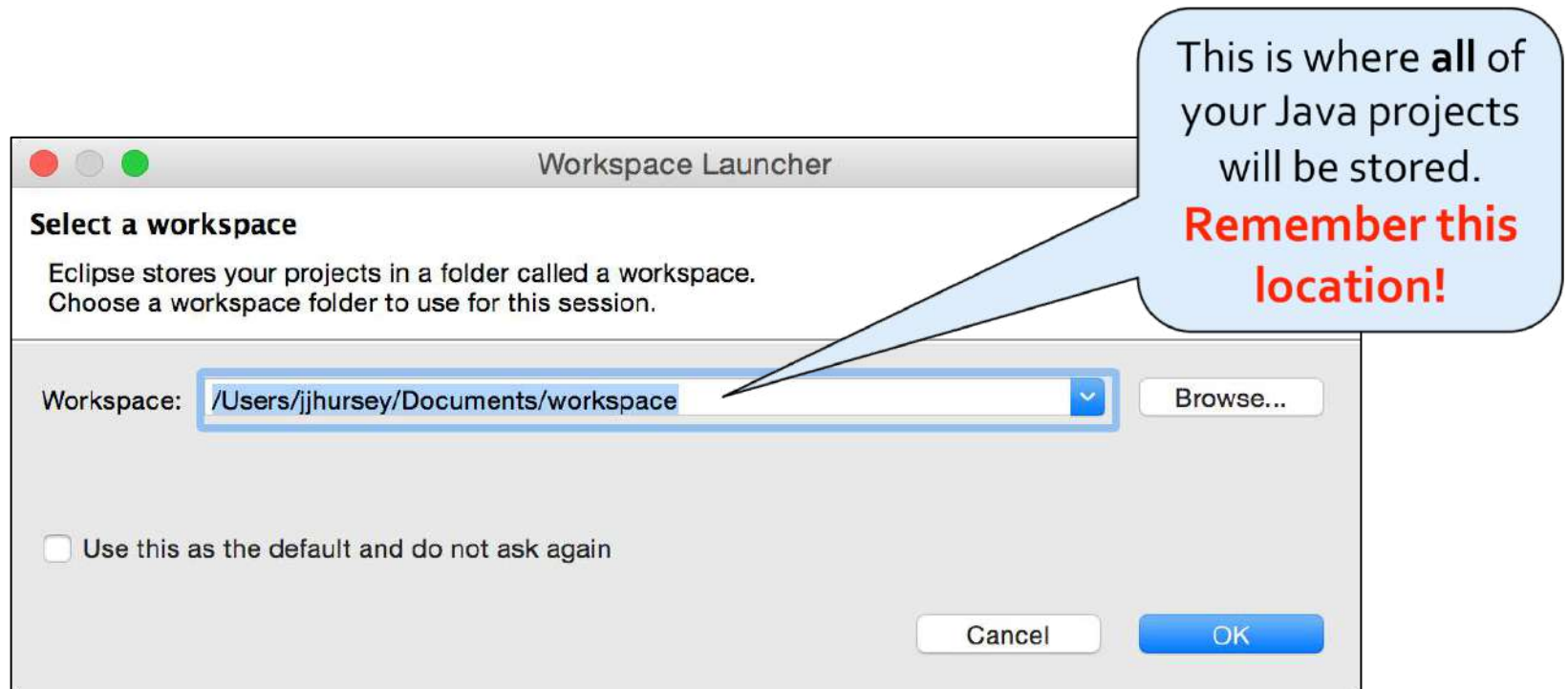
Professor J. Hursey

Launch Eclipse



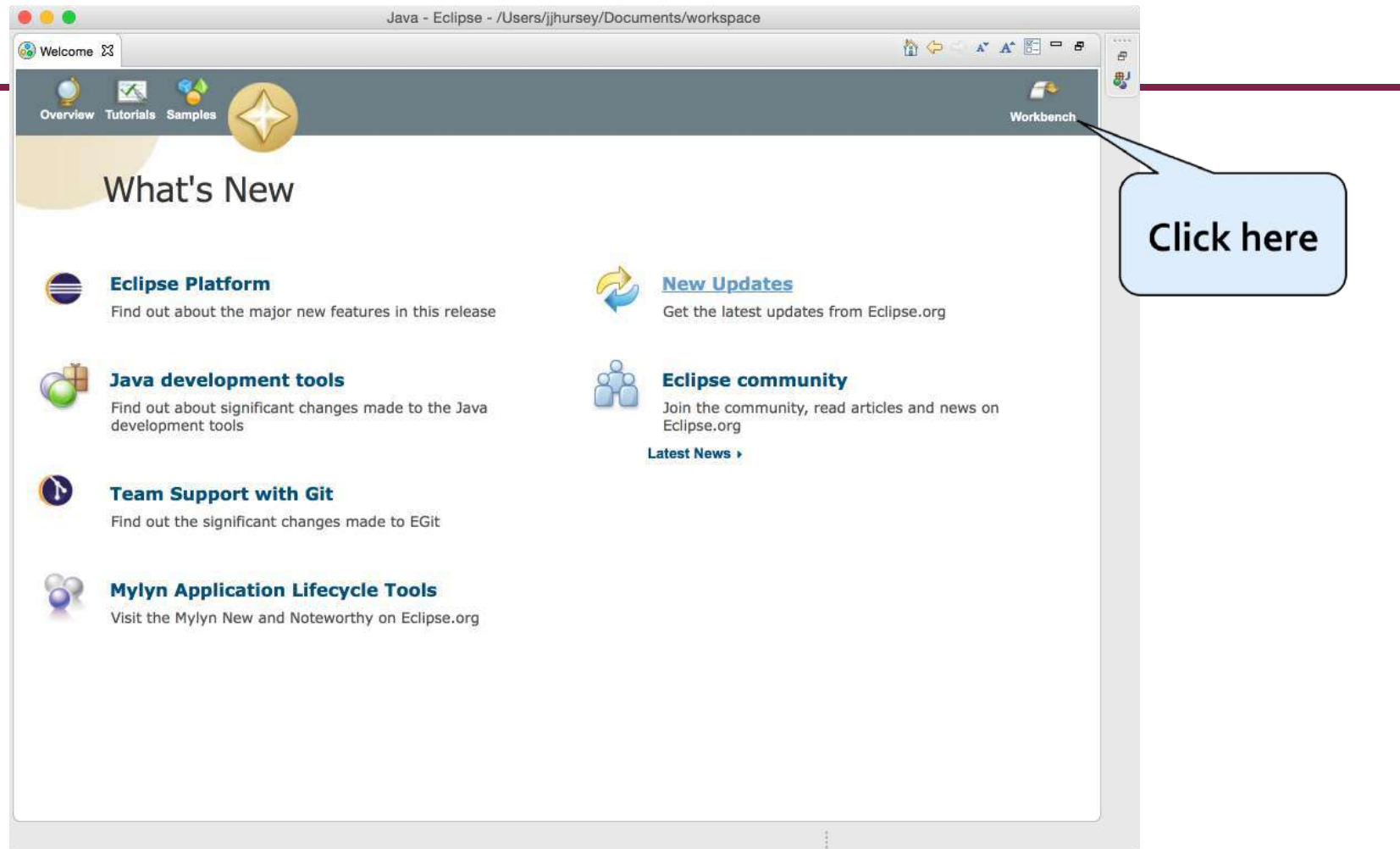
- (Mac) From the Finder:
Applications -> eclipse -> Eclipse

Choose Your Eclipse Workspace Directory



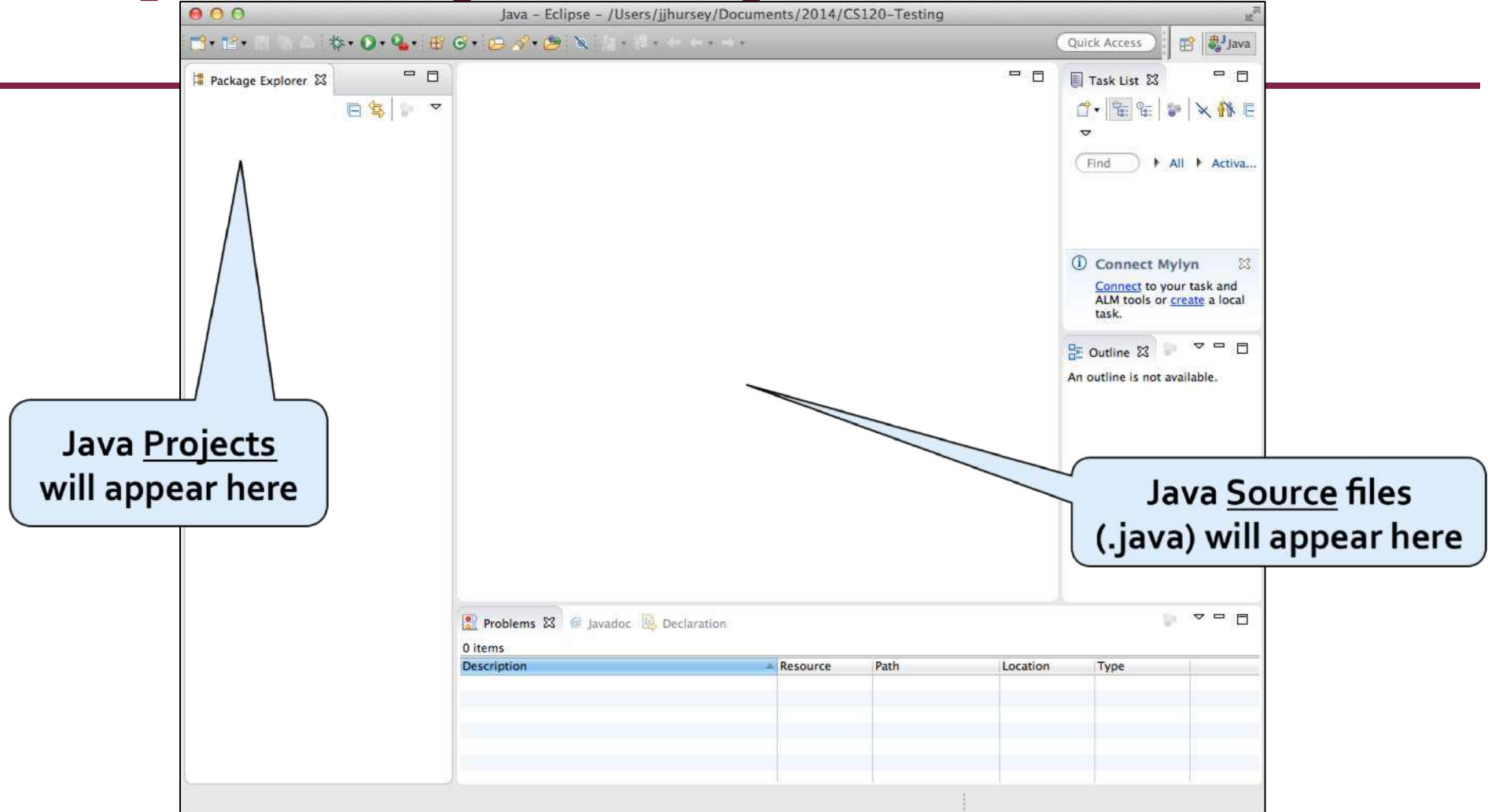
- Click on "**Browse...**" to set this directory
 - or choose the default value
- Click "**OK**"

Eclipse Welcome Screen



- You may be greeted with the Welcome Screen when you first start Eclipse.
Click on the "Workbench" arrow to bypass this screen.

Eclipse Workspace Perspective



- The **Workspace Perspective** is the view we will be primarily using to develop our Java programs.

Creating a New Java Project

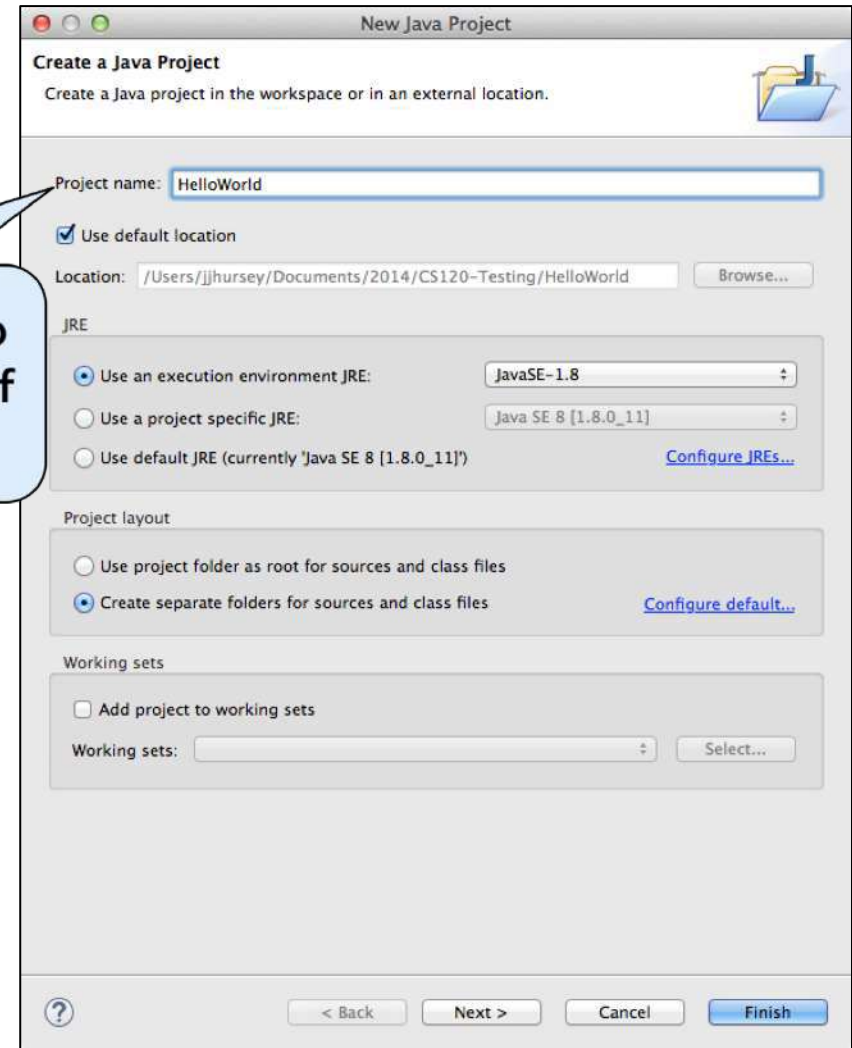
- From the menu bar select:
File -> New -> Java Project

- Set the Project Name to
"HelloWorld"

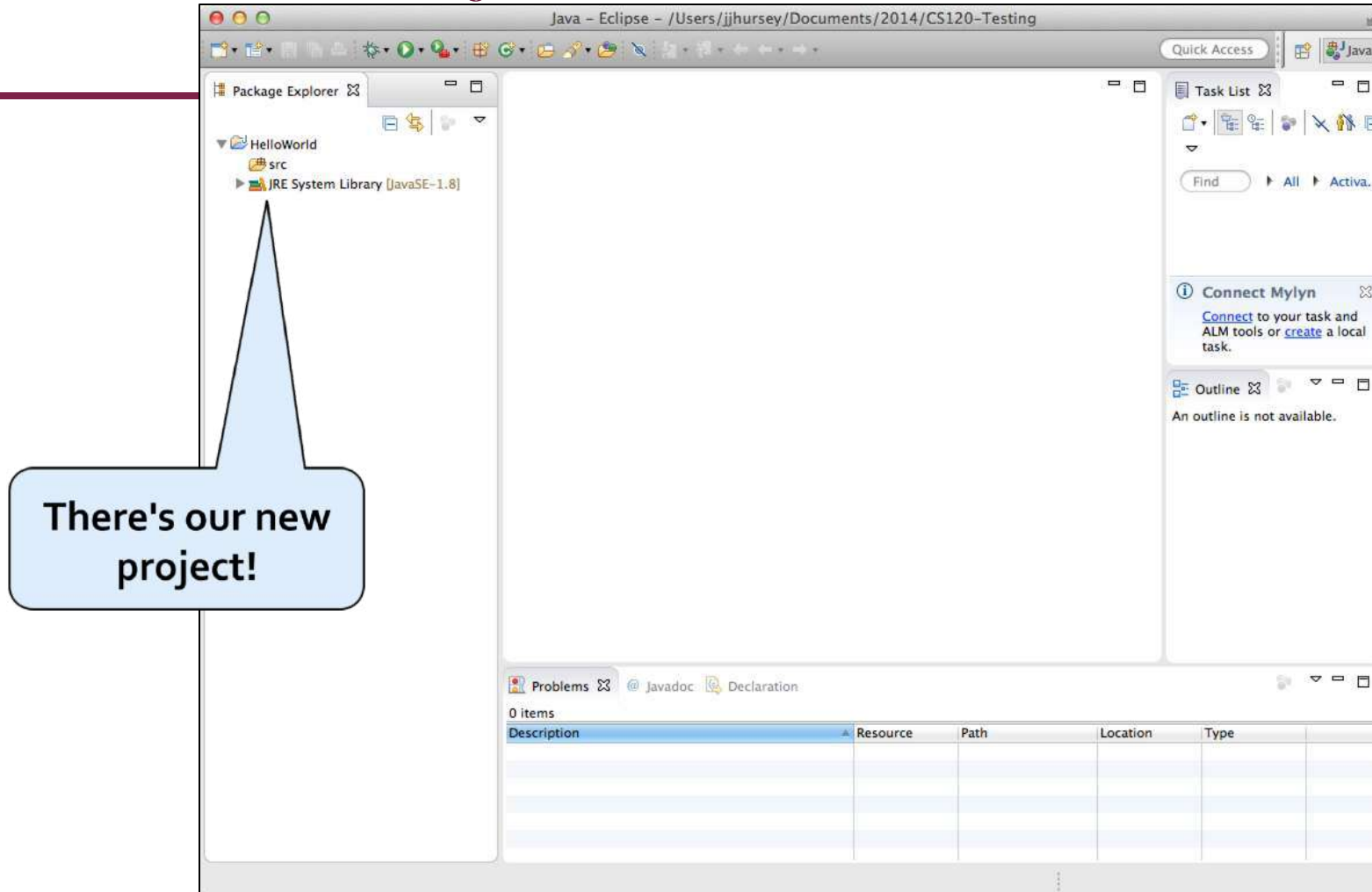
Set the Project Name to something descriptive of that project.

For example, "Assignment8"
or "Lab3" or "HelloWorld"

- Then click Finish



Our New Project



- Click on the little triangle next to your project name to expand the entry (so you can see the src directory)

Creating a New Java Class

- From the menu bar select:
File -> New -> Class
- Set the Name of the class to "Hello" (with a capital "H")
 - Set the Class Name to something descriptive of that class.
Like "Hello"
- Check the box next to **public static void main(String[] args),**
- Then click **Finish**

Make sure to **check this box** if you want the program to start here. (We do for this tutorial)

The screenshot shows the 'New Java Class' dialog box with the following configuration:

- Source folder: HelloWorld/src
- Package: (default)
- Enclosing type: (empty)
- Name: Hello
- Modifiers: public, package, private, protected, abstract, final, static
- Superclass: java.lang.Object
- Interfaces: (empty)
- Which method stubs would you like to create?
 - public static void main(String[] args)
 - Constructors from superclass
 - Inherited abstract methods
- Do you want to add comments? (Configure templates and default value [here](#))
 - Generate comments

Buttons: Cancel, Finish

Our New Class

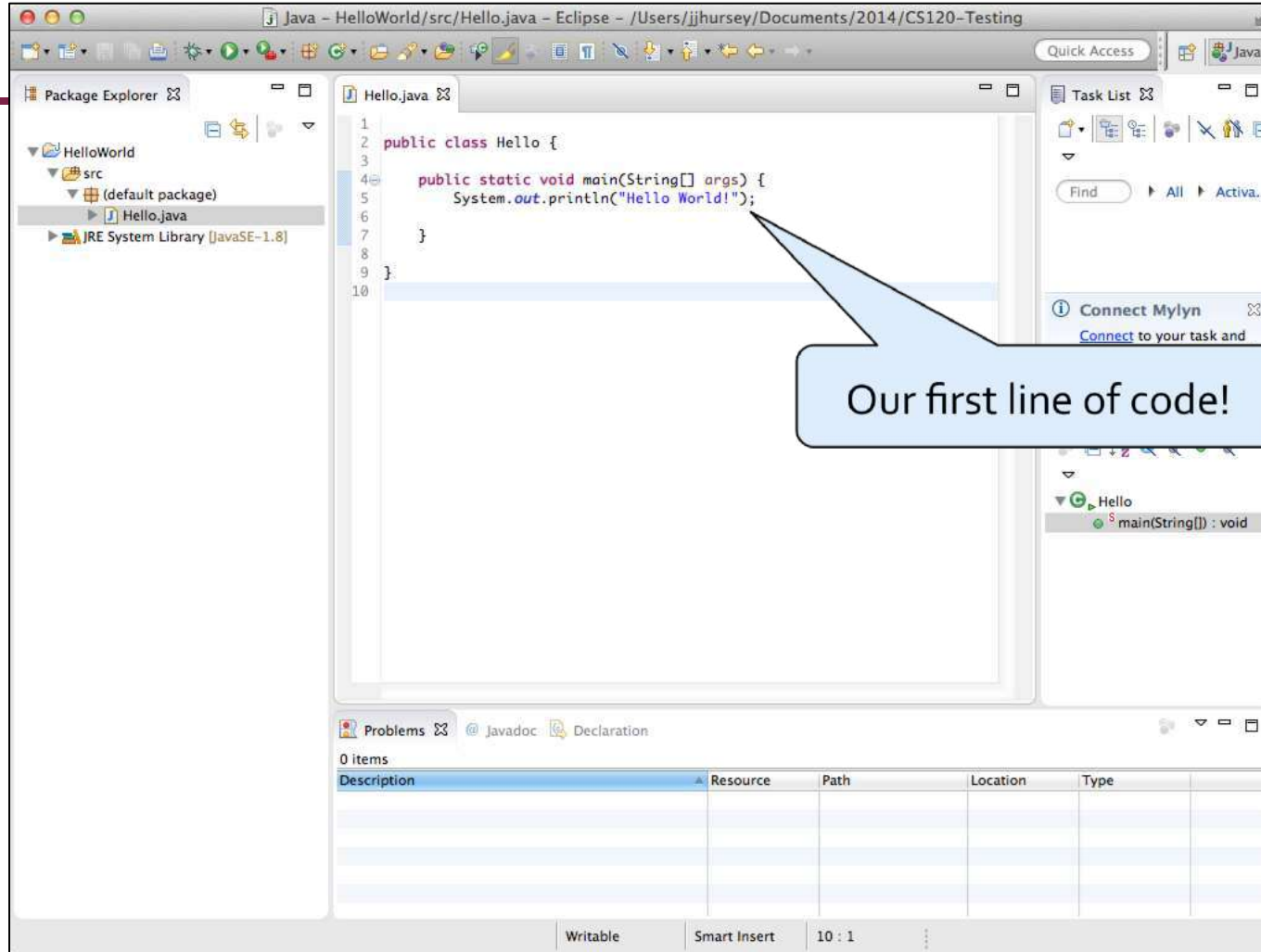
There's our new class!

... and Eclipse opened it up for us with some template code.

```
1 public class Hello {
2
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6
7     }
8
9 }
10
```

- Now we are ready to write some code!

Our First Line of Code!



- Replace the TODO line with (exactly as it appears below):
`System.out.println("Hello World!");`
- Save your program! File -> Save

Running Our First Program!

You can also **Run** your program by clicking on the **play** button, here.

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

Our program output in the **Console**

<terminated> Hello [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_11.jdk/Contents/Home/bin/java (Aug 13, 2014, 11:50:38)
Hello World!

- From the menu bar select: Run -> Run
- The output from your program is displayed in the **Console**