#### COP 3330, Spring 2013

#### The Java Environment

Instructor: Arup Ghosh

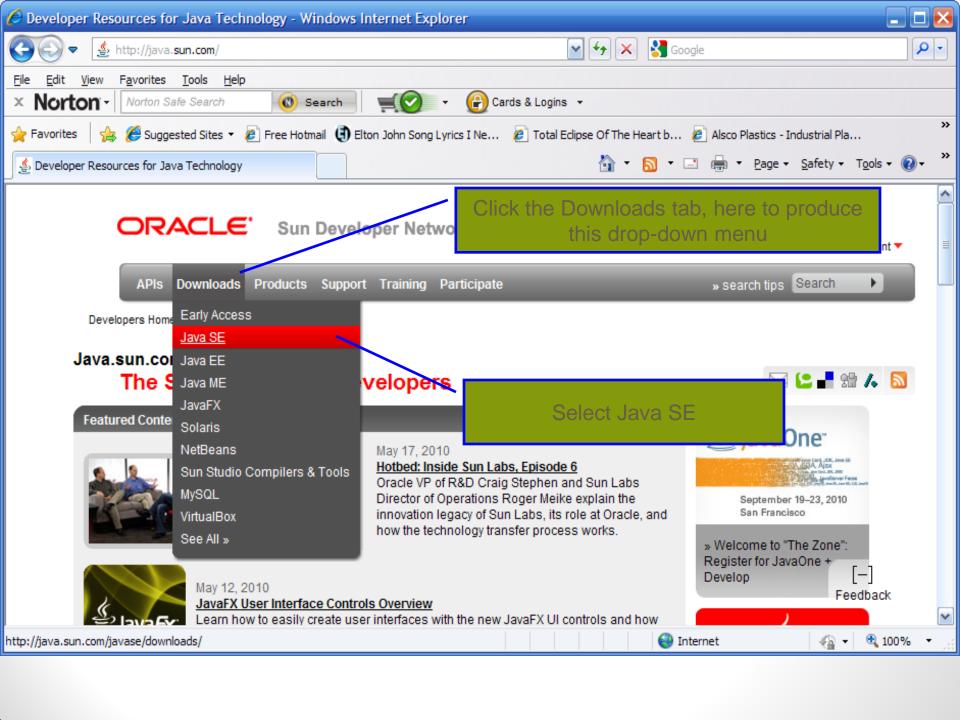
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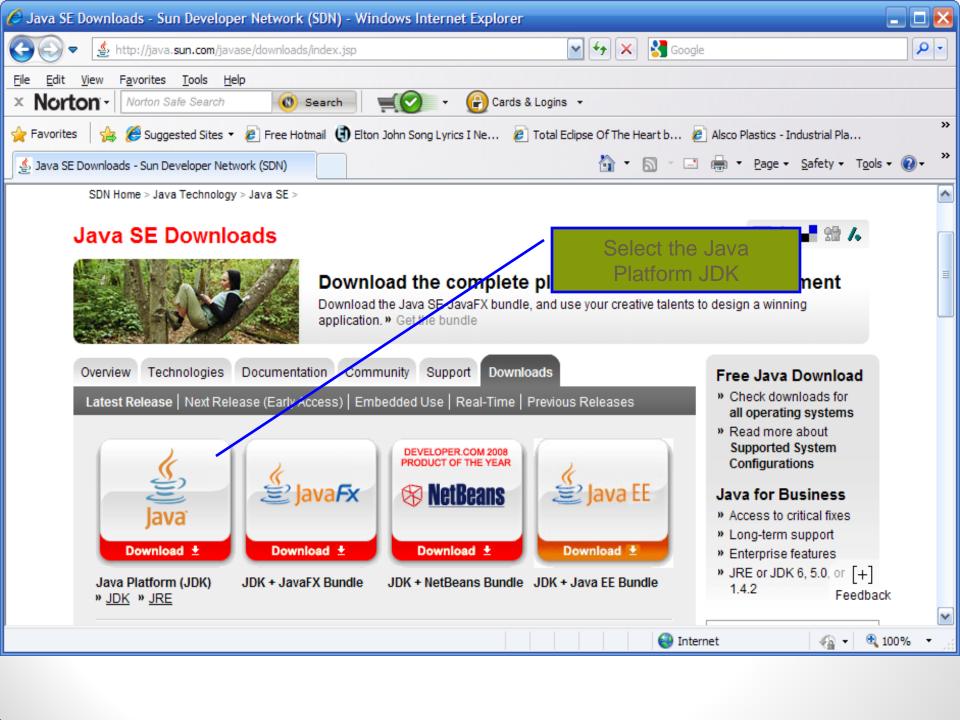
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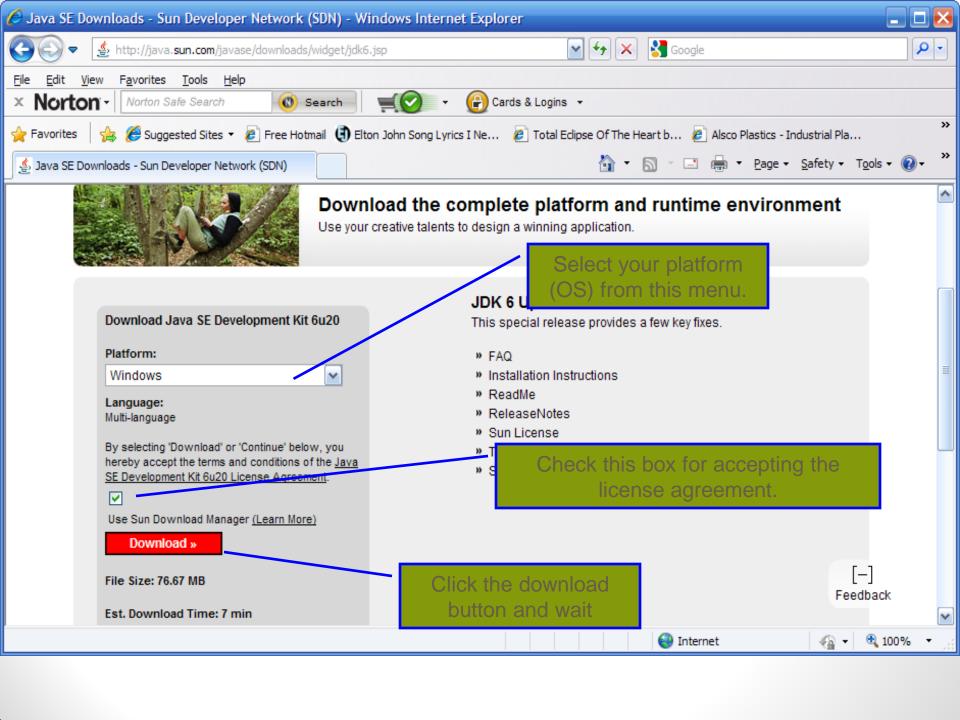
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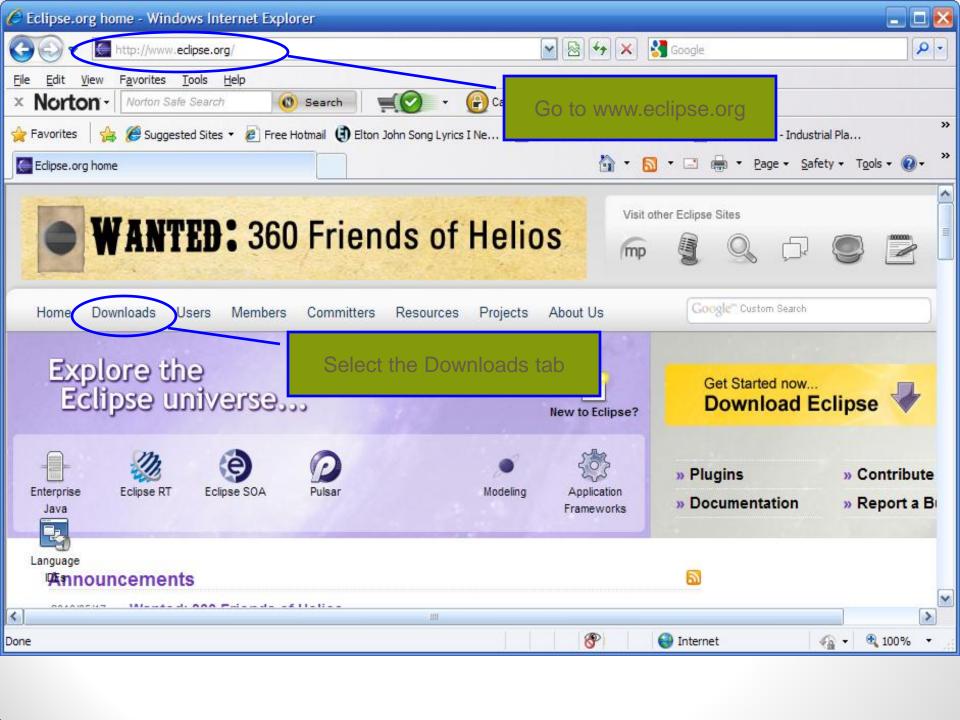
- For the moment we' ll leave OO design issues behind and consider the more practical side of OO programming, the Java environment.
- To be able to write programs in Java, you will need the Java environment. There are several options available depending on what you are doing with Java. For our purposes (and most general use purposes), we'll need the Java Development Kit (JDK). This is available from <a href="http://java.sun.com">http://java.sun.com</a>. The instructions beginning on page 3 show you the basic steps to go through to install the JDK on your machine.
- Once you have the JDK installed, you'll need a development environment. You have many different options here ranging from a simple text editor like NotePad++ to full-scale IDEs like Microsoft Visual Studio and NetBeans. For our purposes, an IDE somewhere in the middle will be fine.

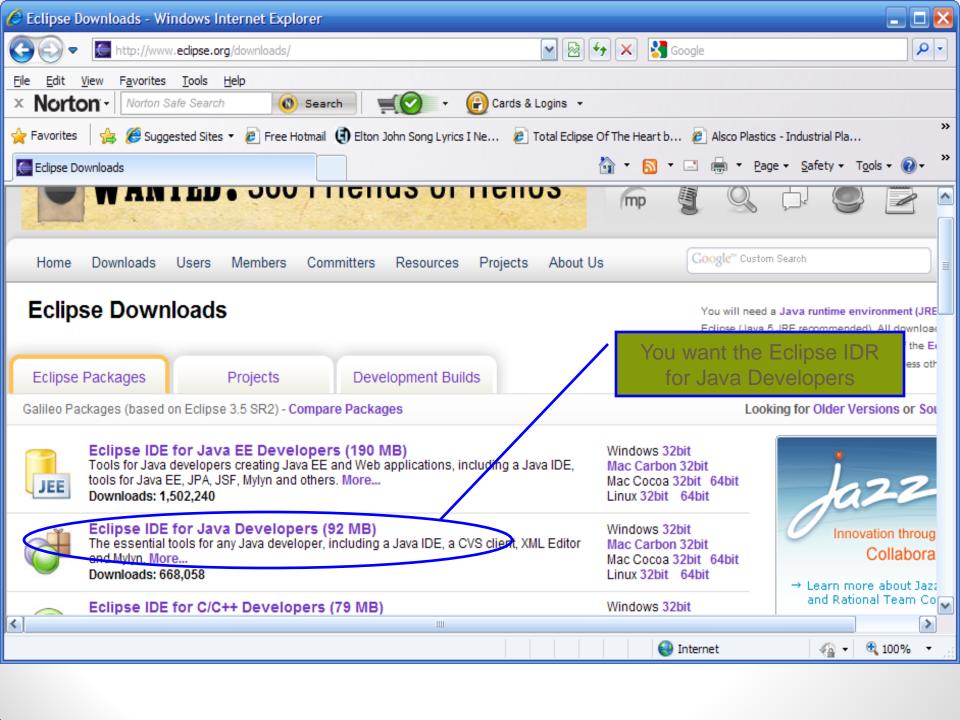


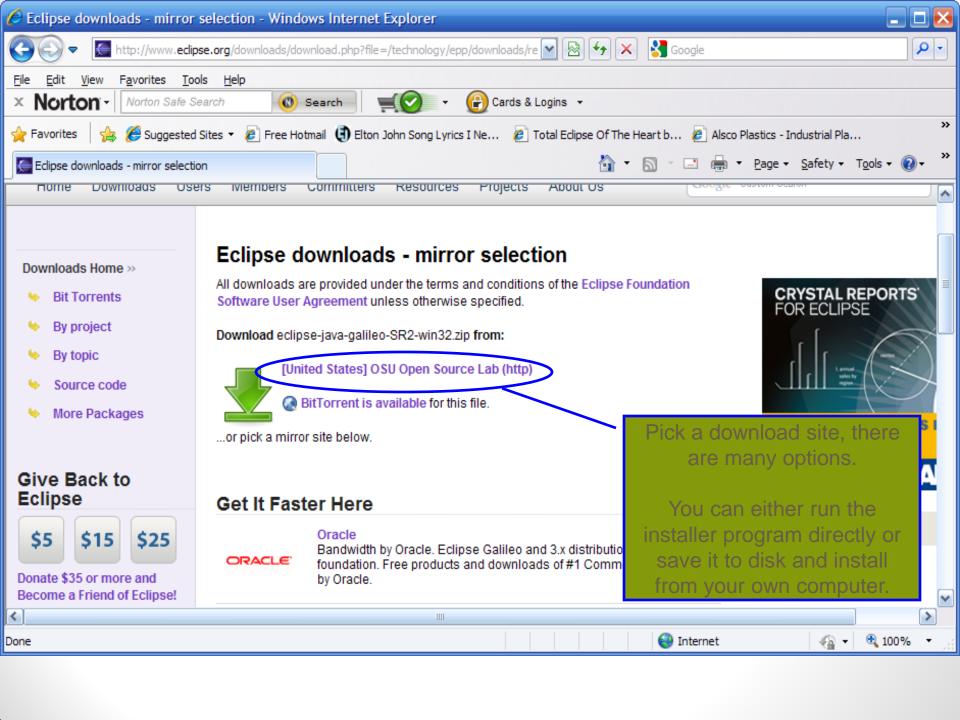


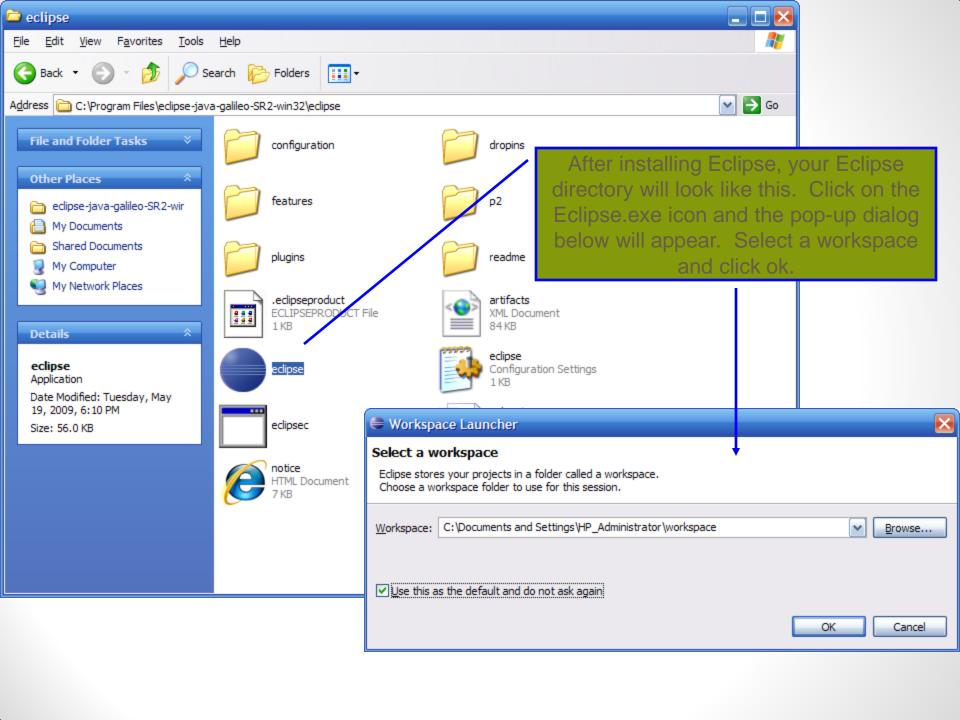


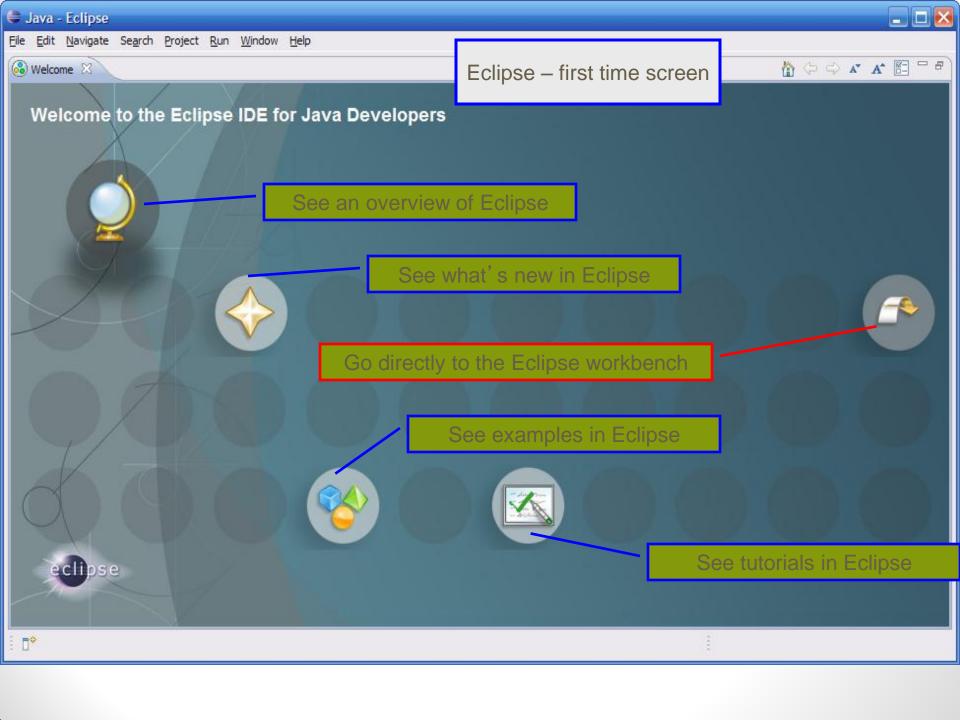


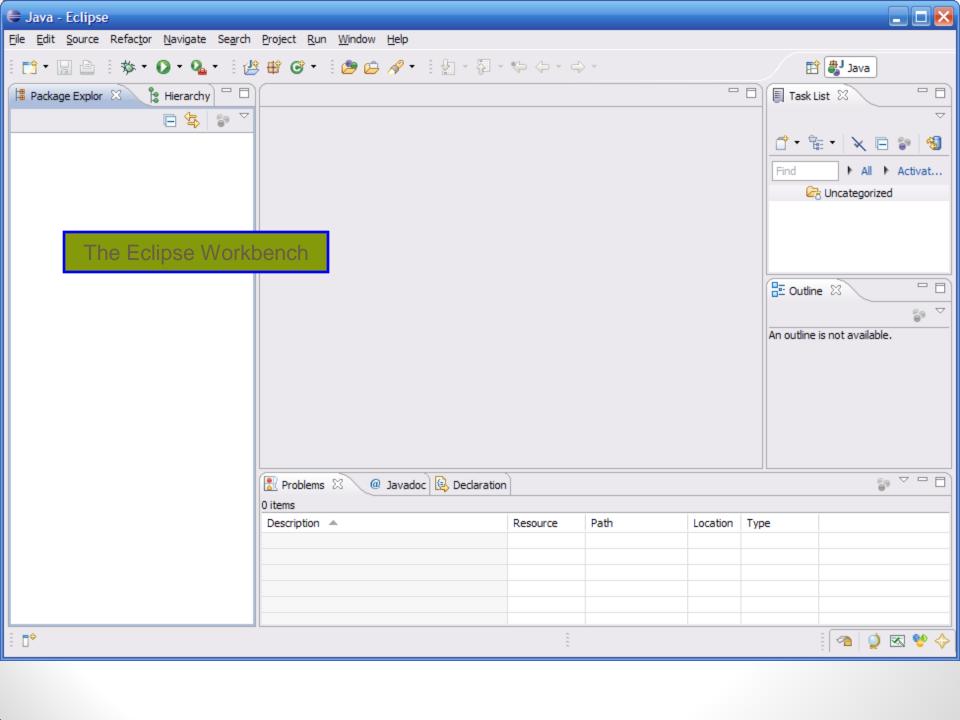


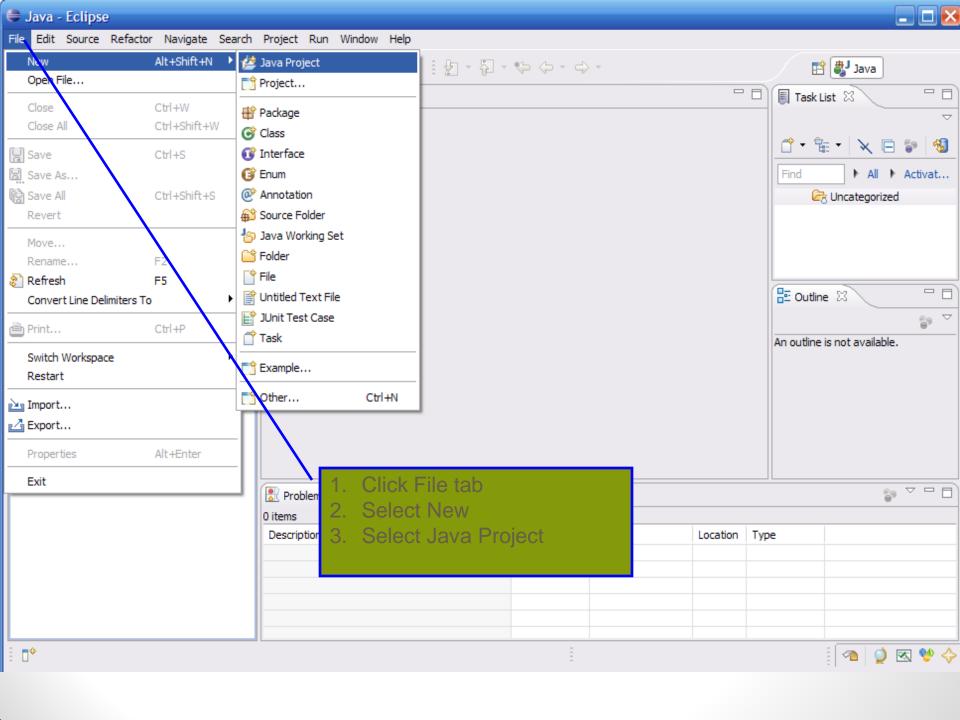


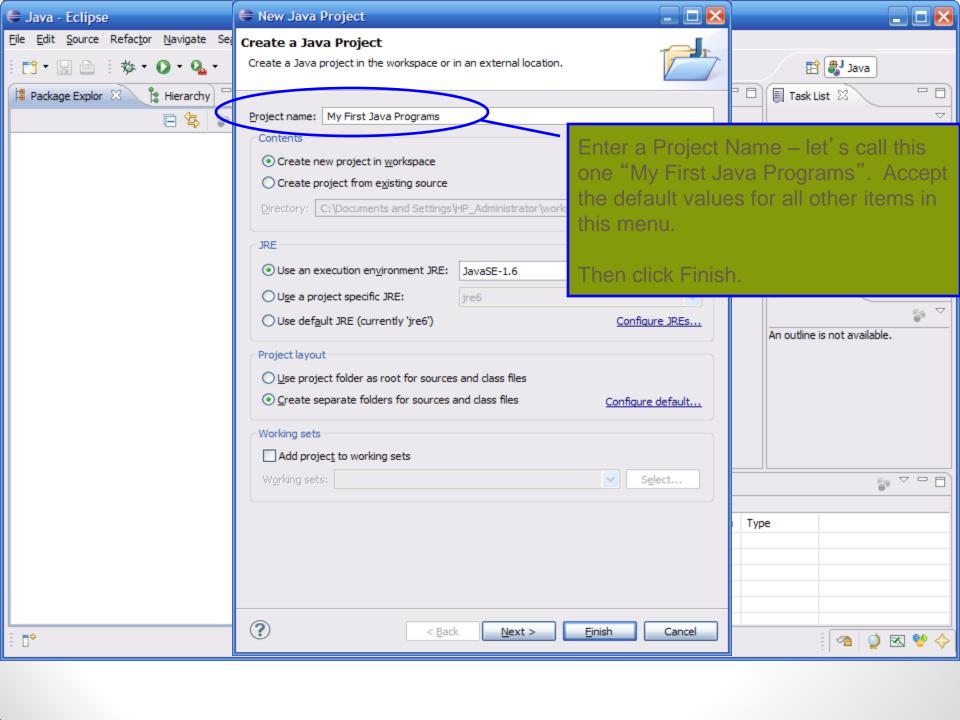


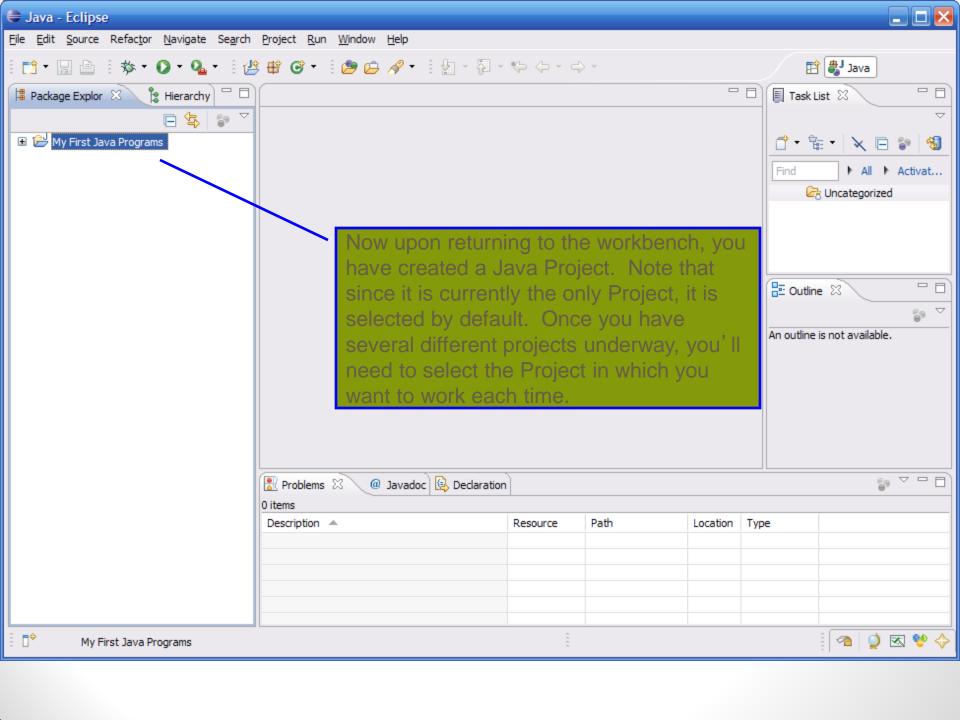


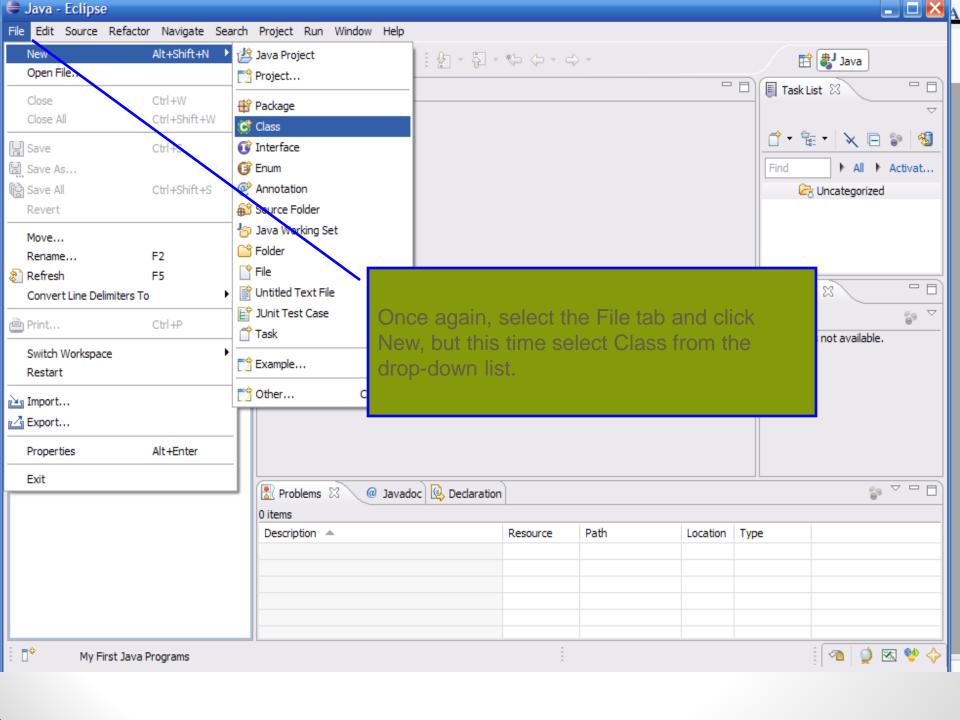


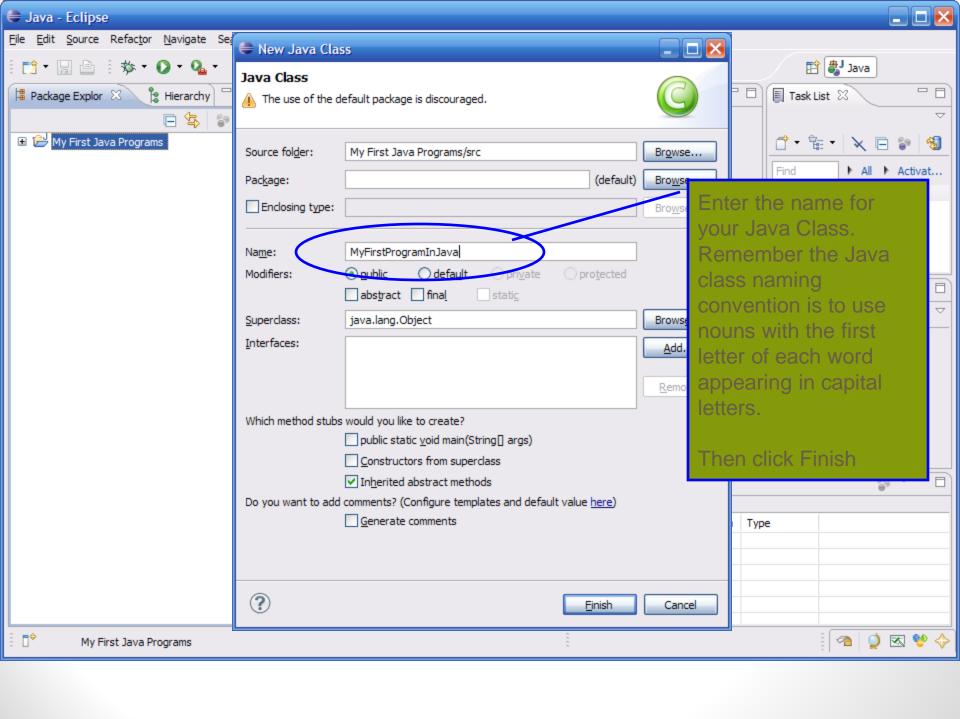


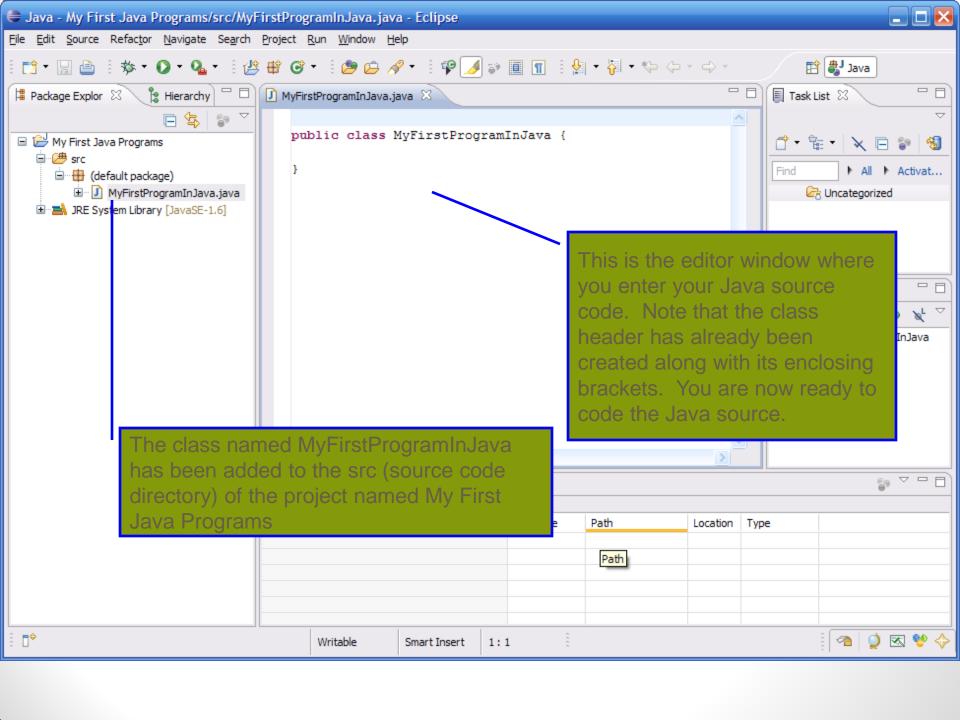


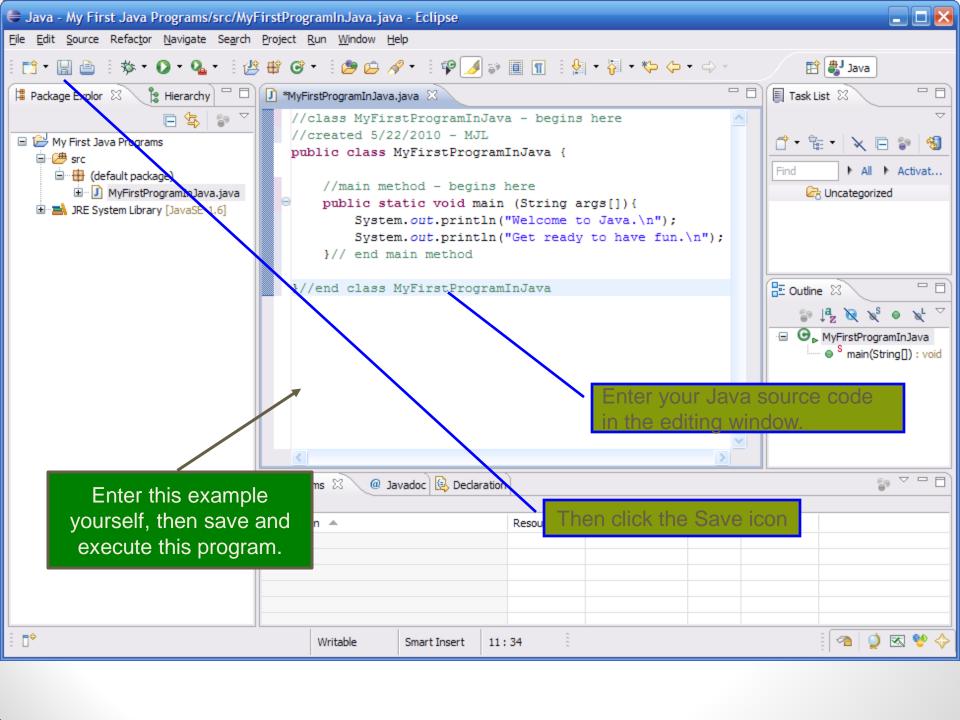


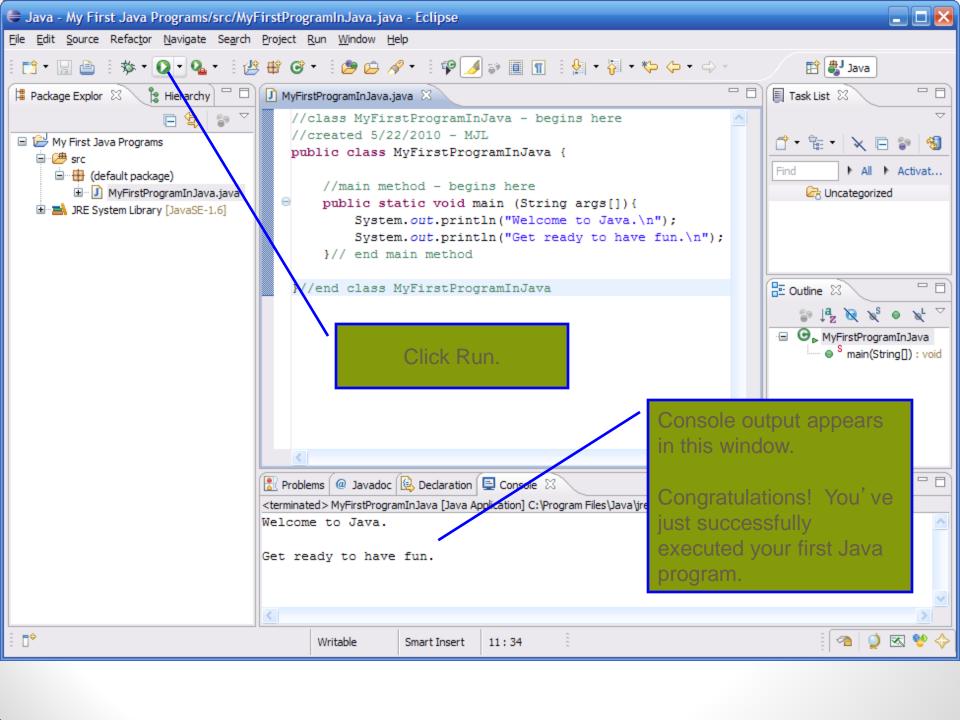


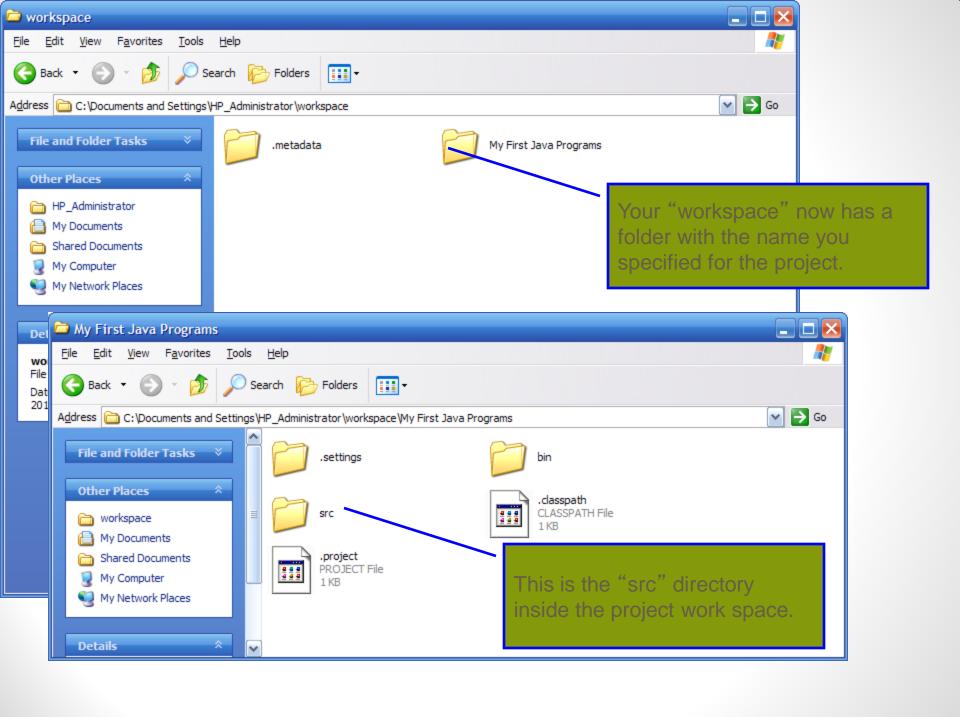


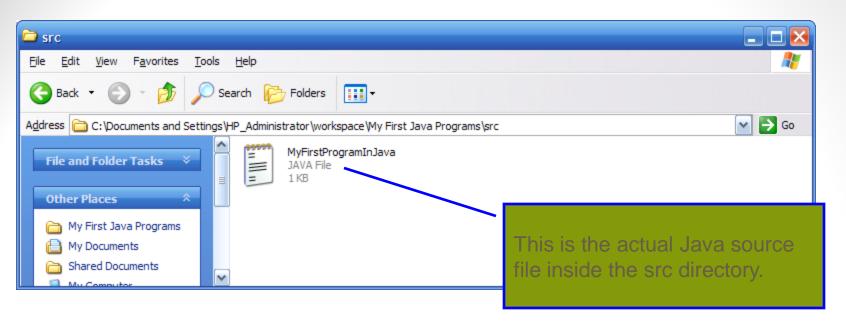


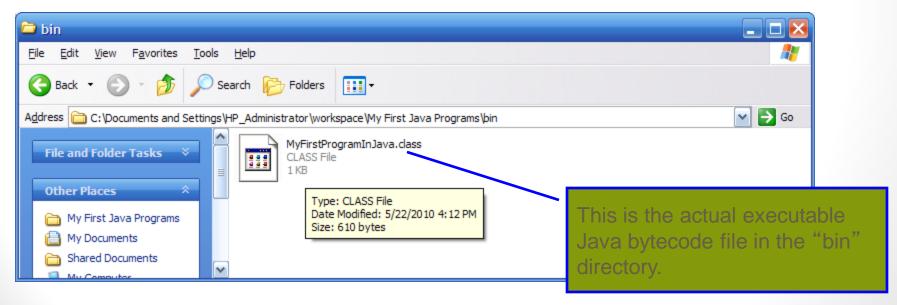




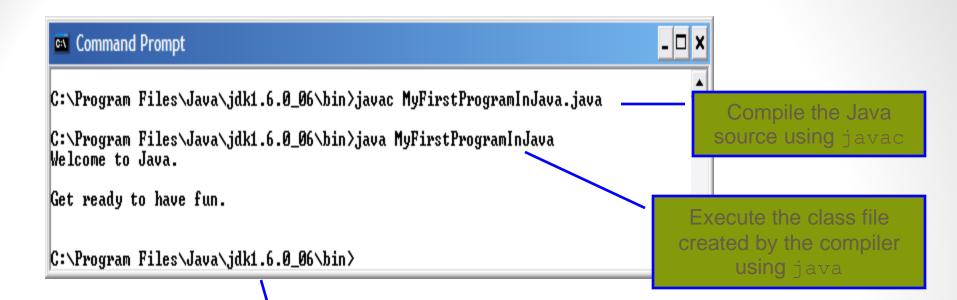






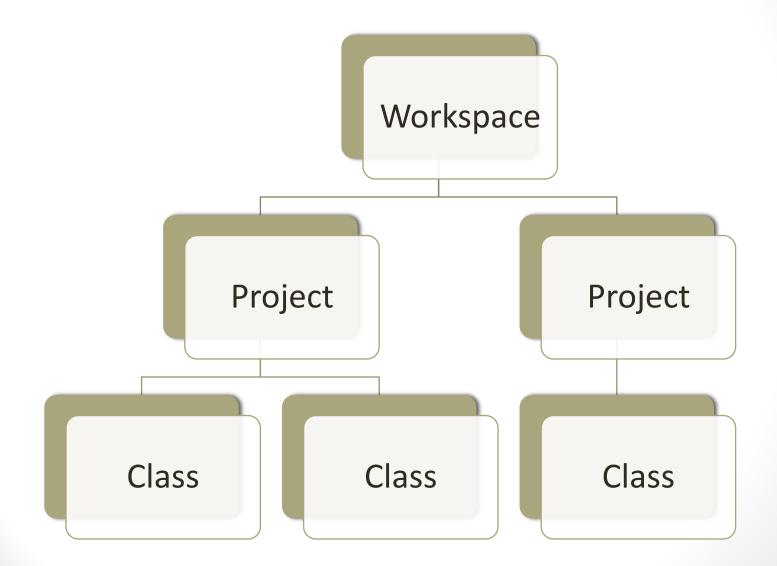


#### Running Java from the Command Prompt



Work from within the Java JDK bin directory. Its also easiest to place all source and class files in this bin directory.

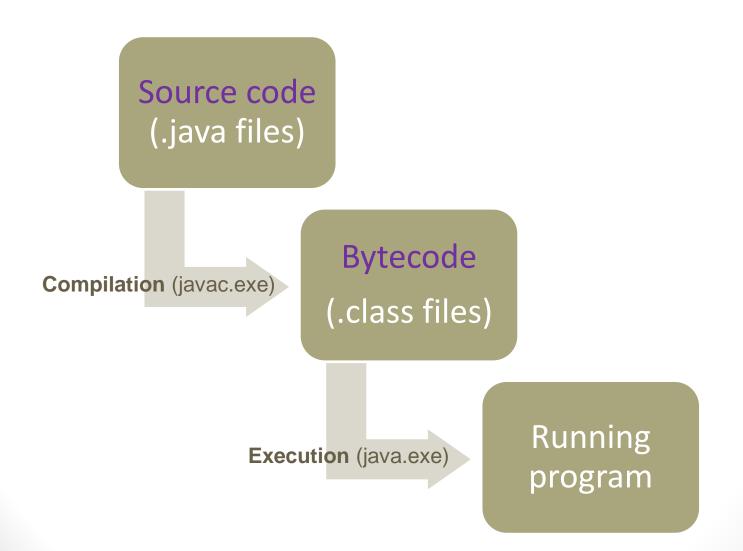
# Eclipse organization



### The hierarchy

- Java source files (with .java extensions) contain one or more classes.
- Related classes are grouped into a project.
  - Each project is a single folder, with some subfolders to organize things.
- All projects are placed in a workspace.
  - This is little more than a folder to contain projects.

# The process



# Assignment 0

- Trivial assignment that prints some text to screen
- Use it to make sure you know what to submit and how
- Has no real effect on your grade, so you can make mistakes here without problems
- You may use System.out.println/printf/print
  - I'll demo these now.

### **Basic Guidelines**

- Submit the .java files, NOT the .class files
  - .class files are unreadable we want to see your code
- Don't just zip up your Eclipse folder and submit that.
  - Grading is done on the command line, so test it that way before submitting.