

Exercises: Java Setup

These exercises are mostly to verify that Java and Eclipse are installed properly, and that you know how to run simple desktop applications.

- 1.** Open Eclipse and go to the “intro” project. Expand the entry that says “(default package)”. Open the HelloWorld application by double clicking on it. Run it (R-click, Run As --> Java Application) and make sure you can see the output in the Console window. Once in a while you accidentally close the Console window and there is then no “Console” tab at the bottom. To get it back in that rare case, do Window --> Show View --> Console.

Also, if you are on your own PC, remember that you can download all of the Eclipse projects from the Java Programming tutorial at coreservlets.com. The Web site has instructions on how to import into Eclipse. There are projects with the source code from the lectures as well as projects containing the solutions to the exercises.

- 2.** Copy HelloWorld and rename it to Test (R-click, Copy, R-click, Paste. Or, to rename without keeping the old class name, R-click, Refactor --> Rename). Run Test.
- 3.** Make a new Eclipse project (File --> New --> Project --> Java --> Java Project. It is slightly helpful to select the radio button that says “Use project folder as root for sources and class files”). Make a new and very simple class that has a main (which, in turn, has at least a print statement). Verify that you can run the application and see the output in the Eclipse console window.
- 4.** Repeat the process from the previous problem, but first make a package and put the Java class in the package.
- 5.** Make sure you have the Java API (<http://docs.oracle.com/javase/8/docs/api/>) bookmarked in whatever browser you prefer to use. Look in that API for the String class. Find the replaceAll method. Which comes first: the regular expression being searched for, or the replacement string? Now look up the Math class. What is the default base of the log method: 10 or e?