Eclipse Demo
Some shortcuts

• If you haven’t noticed, Eclipse takes care of a lot of things for you
  – Autoindents, adds a closing brace/parenthesis after an opening one, suggests methods, classes, imports
• You can use ctrl + space to autocomplete
• You can type “sysout” followed by ctrl + space and you’ll get “System.out.println();”
• Eclipse example: Eclipse.java
Compilation issues

• Eclipse will fix many of your simple compilation issues
• Just hover your cursor over the non-compiled bit and Eclipse will tell you what the problem is + some potential fixes
  – If you want to use something that needs to be imported, Eclipse will import that right away
• If you copy code from one class to another, Eclipse will also copy the corresponding imports if any
• If you highlight all your code and go to Source -> Correct Indentation, Eclipse will indent all of your code “correctly”
  – “Correctly” is in quotes because it is correct w.r.t. your current layout of braces, parentheses, etc.
  – Might help you find some bugs caused by bad indentation of misplaced braces/parentheses
Eclipse debugger

• This is arguably the most useful feature of Eclipse
• Probably the best debugger I have ever seen
  – Only rivaled by the Matlab debugger
• To use it, add a breakpoint somewhere in your code, e.g., at a line that causes your program to crash
  – Double click in the left margin, to the left of the line numbers
  – A small blue dot will appear, indicating you have a breakpoint
• Then run your program in debug mode
  – Your program will be suspended before the breakpoint
  – You can examine the state of your program
• Can also run in debug mode without breakpoints
  – Program will be suspended right before it crashes
Many, many other features

• Manage project interdependencies, library interdependencies, classpaths
• Plug-ins for SVN/git
• Plug-ins for big project development tools such as maven/gradle
• All of these things are out of score, of course