Welcome

Meme Credit: Thomas Rachman, Any Person Any Meme (Facebook)

Getting Started With Eclipse
CS 2112 Fall 2019

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Lab Staff

Monday

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Versions
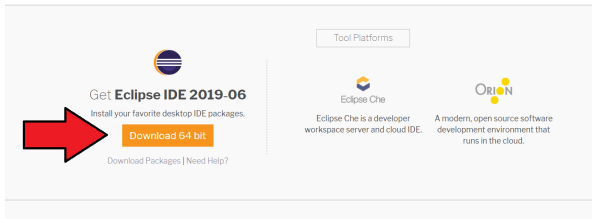
We recommend Eclipse 2019-06 and Java 11

Any relatively new version of Eclipse should be okay.
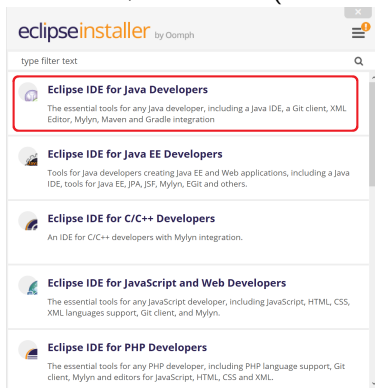Any version of Java from 8 through 11 is officially supported.

Step 1

Go to www.eclipse.org/downloads, select

Step 2

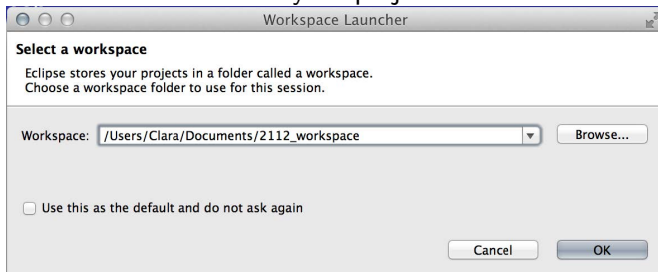Run the file as an admin, let it load (it'll take a while), then

Step 3

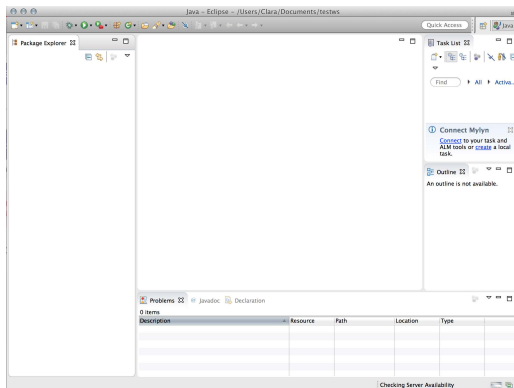Finish installing and launch Eclipse

Step 4

Select a location for your workspace
This is where all of your projects will be stored

We recommend choosing a folder on your desktop or somewhere
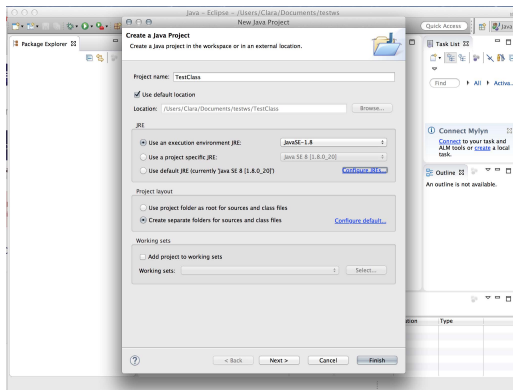you will remember.

Step 5

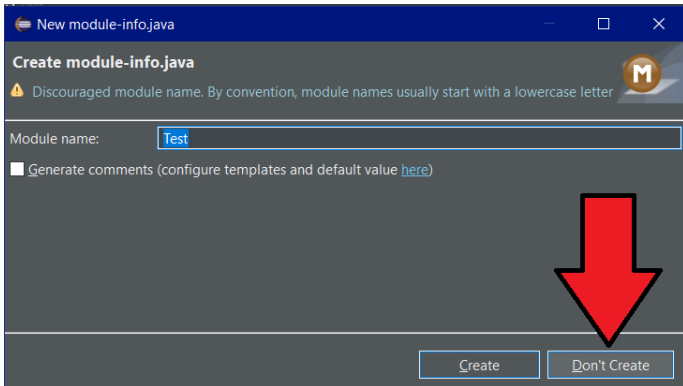Close the Welcome screen. This is the default Java Perspective.

Make A New Project

Make sure to select Java 1.8 or later as the execution environment.

Modules

Click "Don't Create" when asked to
create the file `module-info.java`.

This does not apply to Java 8.

Coding Exercise

There is a 4-digit number which, when the order of its digits is
reversed, yields a number 4 times greater
Write a program to find and print out this number

- Create a new package
- Create a class with the logic to find the number
- Create a class with a main method that will instantiate the
  first class and then print out the number

I/O Exercise

Write a program to read user input from the console and print
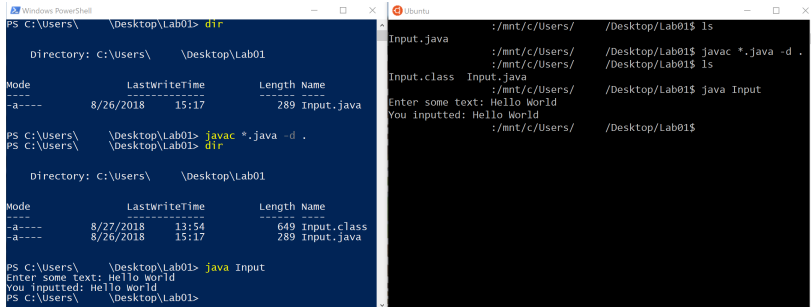back the user input.
Feel free to reference the IO handout:
https://courses.cs.cornell.edu/cs2112/2019fa/handouts/IO.pdf

- Create a new package
- Create a class with a main method that will accept input and
  echo it back

Command Line

Open up a terminal emulator (varies depending on your OS) and
compile/run your program from the command line

Useful Features Of Eclipse

- Refactoring
- Autocomplete
- Compile & Run
- Autoindent
- Autoformat (Ctrl + Shift + F)
    - We suggest turning on autoformat on save
    - Preferences > Java > Editor > Save Actions > Perform the selected actions on save > Format Source Code > Format edited lines
- Javadoc
- Comments