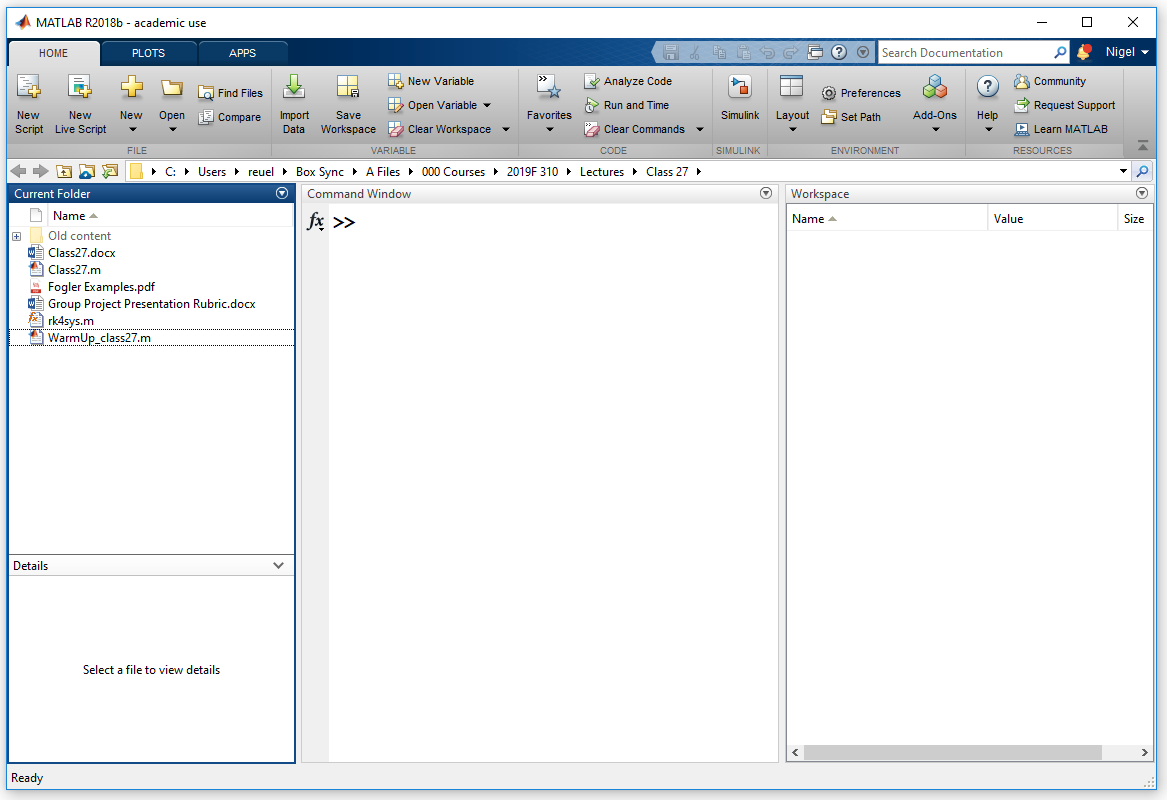
Class 1 – ChE310\_Sec1\_S2019 8.27.2019

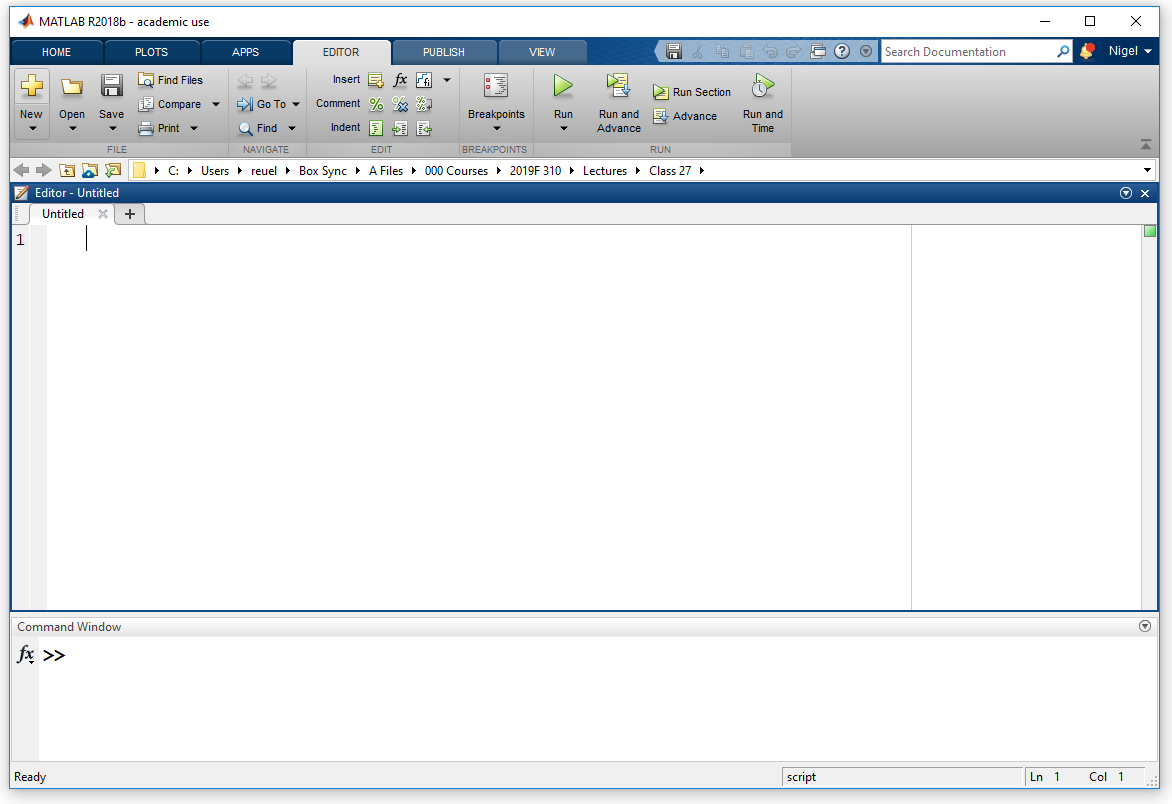
**Group Activity:** Follow instructions to introduce your team and create your startup!

**First Day of Matlab Boot camp:**

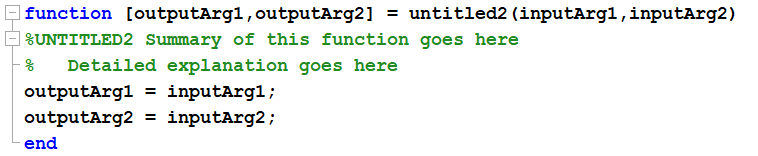
1. Matlab environment – default view



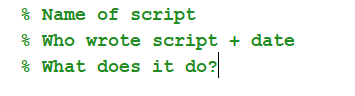
1. Matlab environment – Reuel preferred view



1. Working directory
2. Important differences between types of written commands:
   1. Command prompt entry
      1. Single entry
      2. Nothing saved long-term
   2. Function (in editor)
      1. Requires input variable(s)
      2. Returns output variable(s)
      3. Syntax:



* 1. Script (in editor)
     1. Think of this an executable file, not inputs are needed at start of the program.
     2. It can have all steps embedded in the script file OR it can call on other functions.
     3. Data can be loaded from a file or can be prompted to user for input (Class 2)
     4. Syntax (free-form, just put in header)



* 1. Script and functions are saved with \*.m (often called m-files)

1. Some commands to learn on day 1:
   1. Up arrow to access previous commands
   2. Use of **clc** and **close all**
2. ALWAYS insert comments at top of m-files
   1. Use comment symbol **%**
   2. Header
      1. Name of file
      2. Who wrote it and date
      3. Short description of what it is
3. Saving
   1. ALWAYS save your m-file at start
   2. Routinely save during programing
   3. Make new copy if doing big change
4. Entering variables (demonstrate)
   1. Unknown/New variable FIRST – left hand side of equality
   2. Known values on right hand side of equality
5. Simple math operators (demonstrate)
6. Build in help is your friend
   1. 
   2. More help (has examples!)

Questions?

Examples?

Office hours today! Matlab review.