Long testing setup:

1. Live data save in code (if live\_data.txt' already existed, rename or remove)
2. Computer is charged and will not “sleep” or shut off screen
3. Hardware setup ready
   1. Power supply box for relay board
   2. Power supply for Arduino
   3. Power supply for valves
   4. Arduino and DAQ to PC
   5. Power supply for conductivity transmitter
   6. Both flowmeters are in place
4. Permeate tray (clean, big enough)
5. Flush brine tray (clean, big enough)
6. Filling bucket to ensure not run out of water in total running time
7. Record:
   1. conductivity of feed (bucket and tank)
   2. pressure of pulsation dampener
   3. pump VFD number
   4. anticipated batch number and total time
   5. starting time
8. Start running

After each run:

* 1. Save data from both existing variables and live\_data.txt into a new folder
  2. Run data through data analysis file and save all graphs
  3. Push to GitHub
  4. Measure:
     1. Conductivity of permeate
     2. Conductivity of brine
     3. Volume of permeate
     4. Volume of brine
  5. Log all result in the “Experiments on Squishy” google doc