Testing

* Testing Register Feature
  + Case 1: Just Letters username + password
    - Username: mathew
    - Password: matt
    - Result: Success – login successful after registration
  + Case 2: Username and Password are numbers and special characters
    - Username: 3.141592
    - Password: !@#$%
    - Result: Success – Login successful after registration
  + Case 3: Registered 10 users
    - Success – login database contains 10 users + register button disappears
  + Case 4: Username + no password entered
    - Success – error message “Please fill in required fields”
  + Case 5: No username + password
    - Success – error message “Please fill in required fields”
  + Case 6: No username or password
    - Success – error message “Please fill in required fields”
  + Case 7: Add Spaces in username and password
    - Username: Mathew Wilker
    - Password: test test
    - Result – Success – error message “no spaces allowed”
  + Case 8: Enter existing Username
    - Username: wilkem1
    - Password: password
    - Result – Success – error message “wilkem1 is already taken”
  + Case 9: Enter existing password
    - Username: wilkem2 (doesn’t already exist in DB)
    - Password: test
    - Success
* Login Page
  + Case 1: Login in with existing user
    - Username: wilkem1
    - Password: test
    - Result – Successful login
  + Case 2: Login with correct username but wrong password
    - Username: wilkem1
    - Password: test2
    - Result – Login failed
  + Case 3: Login with non-existing user
    - Username: ben
    - Password: test
    - Result – Login failed
  + Case 4: Username without password
    - Username: wilkem1
    - Result – Login failed
  + Case 5: Username blank
    - Password: test
    - Result - Login failed
  + Case 6: Adding spaces after username
    - Username: wilkem1\_
    - Result – Login failed
  + Case 7: Existing Username and existing password but from two different users
    - Username: wilkem1
    - Password: 1 (sunb26)
    - Result – Login failed
* Main Page
  + Logout Button
    - Case 1: Pressed
      * Result – logged out successfully
  + View Parameters (Button + Label + drop-down menu)
    - Case 1: New User – should display default parameters from parameters\_database.json
      * Button = Pressed
      * Result – Success
    - Case 2: Existing Users with previous inputs
      * Result – Success
    - Case 3: Existing User – modify parameters – check if updated params are displayed
      * Result – Success
  + Run Button
    - Case 1: pressed
      * Result Success
  + Edit Parameters
    - Case 1: pressed
      * Result – Success – parameters window opened WITHOUT closing mainpage WITH the right programmable parameters based on the selected mode
* Parameters Page
  + Case 1: Leave entry fields blank
    - Result – Failed – no error appeared BUT params were not saved
    - Fix: Added label to display error message
  + Case 2: Leave some entry fields blank
    - Results – Success – Error Message saying to fill in all entry fields
  + Case 3: Enter in all values out of range
    - Lower Bound
      * Success – Invalid labels appear
    - Upper Bound
      * Success – Invalid Labels
  + Case 4: Enter in proper values
    - Page should destroy and values should be saved in params DB under the proper mode
    - Success
  + Case 5: Enter in some values out of range (Test each entry box for out of range for the lower and upper bound + increment testing)
    - Check if values are saved or not
    - Test if the upper and lower bounds are acceptable values
    - Success – correct invalid labels appeared, page was not destroyed, no partial params saved
  + Case 6: Negative inputs
    - Success -Invalid labels appear
  + Case 7: Words
    - Failed – Int casting ran into error
    - Fix: try and except
  + Case 8: Testing Increments for LRL
    - Failed – values inbetween 50-90 were invalid
  + Case 9: Testing Decimal inputs
    - Tests: 150.0, 400.0, 500.0 – ARP/VRP
    - Failed – casting error
    - Fix: Try and Except – will implement acceptance of .0 numbers for assignment 2
  + Case 10: Testing Decimals for amplitude
    - Success – only takes numbers of increments of 0.1
* Fix casting error
* Fix label fixed height + width
* Fix centering of invalid message