ENGR 1120 Lab 0

Introduction to Lab

Overview :

Today you will be introduced to the lab and the lab computers. Please respect the equipment and the room as we have to share with the university. The 4th floor Clement Hall labs have a strict *no food, drinks, or tobacco products* policy. There is a water fountain down the hallway. If you have a drink with a lid, please keep it in your bag.

Also, CLEM405 is the open hours working lab for students. Please check the posted schedule.

Assignment :

1. Find a partner to work with, and make sure that you are both in the same section of lab. Also, I can help you find a partner. Exchange email addresses so that you can communicate with your partner in the future.

2. Find an open computer. The space is tight I know but it should loosen up in time.

3. Take turns 'logging in' to your lab computer. If possible stay on this machine during the semester. NOTE: These computers are on the 'CAE' domain and are different than other computers on campus. To log in the first time enter the following information.
   - USERNAME: twhill21 (use your ID)
   - PASSWORD: T01234567 (use your T number if you have not setup a password yet)

   You should then be asked to make a new password if you have not done so yet.

4. If you CANNOT log in do the following:
   - Try again carefully.
   - Try any passwords you have previously used on campus.
   - Find your T number to make sure it is correct.
   - Email or see Joel Seber, email: jlseber@tntech.edu, office: CLEM301.
   - Email or see Mike Renfro email: renfro@tntech.edu, office: CLEM314.

5. Once both partners have successfully logged in find the 'MATLAB package' and open it. You may have to wait a minute while it loads.

6. Locate and Identify the five elements of the software package that we discussed in lecture.
   - Command Window
   - Command Window History
   - Current Folder
   - Workspace
   - Status Indicator
7. Go to the Command Window and practice a few commands using the basic math operators. Remember to follow the order of operations.
   - Addition: $+$
   - Subtraction: $-$
   - Multiplication: $*$
   - Division: $/$
   - Exponent: $\hat{}$
   - Parenthesis: ( )
8. Use MATLAB to calculate the value of the following 3 expressions. When you are finished come see me and you are finished!

$$4 - \frac{3\times(4-2\times(6-3))}{2}$$

$$16 - \frac{3\times(8-3)^2}{5}$$

$$\frac{16}{2\times(8-3\times(4-2))} + 1$$