

## MEET Y1 - Module 1 - Lab 1

## Intro to Linux

In this lab, you will learn how to use basic **Linux** commands. These will help you organize your work for this year and for the rest of your time at MEET!

## The most important Linux shell commands are:

- ls......(that's "ell ess") means 'list'-- lists all files in your current folder
- cd.....means 'change directory' -- takes you to the folder you specify, e.g. 'cd folderName'
- mkdir...means 'make directory' -- makes a new folder in your current folder with the name you specify, e.g. 'mkdir newFolder'
- &.....put this after a Linux command to run the program in the

background, e.g. 'idle3 &'

#### Other useful Linux commands are:

- cp.....means 'copy' -- copies the file you specify to the folder you specify, e.g. 'cp fileName folderName'
- mv.....means 'move' -- moves the file you specify to the folder you specify, e.g. 'mv fileName folderName'
- pwd....means 'print working directory' -- prints out the folder you are currently in

To open up a program from the Linux terminal, type...

 idle3.....to open IDLE3 -- you will learn more about programming in IDLE3 later



- firefox.....to open the Firefox web browser
- nautilus...... to open the file browser nautilus

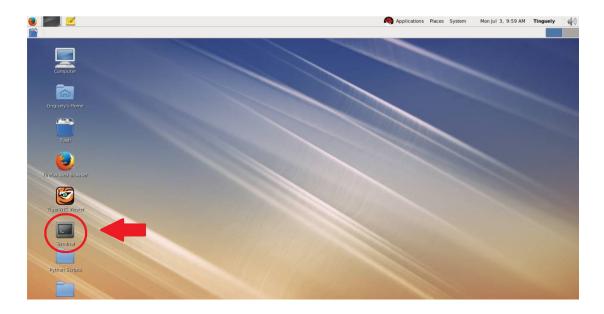
# And don't forget the ampersand ' & ' afterward!

idle3 &
firefox &
nautilus &

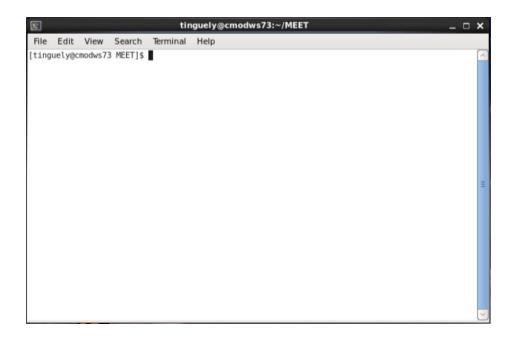
## Follow these instructions:



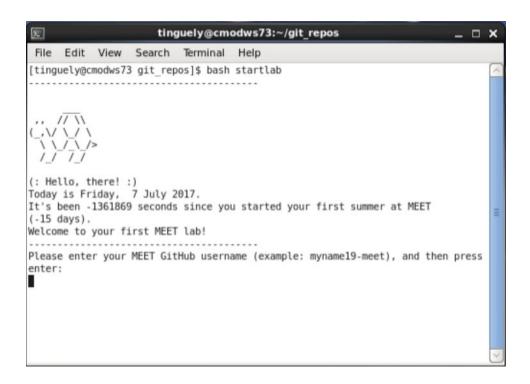
0. Open a Linux terminal by double-clicking on this icon:



You should see something like this pop up:



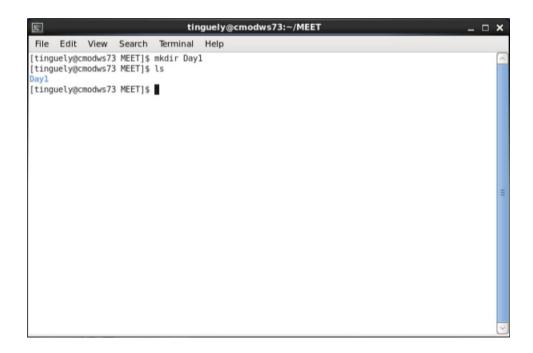
1. Type bash startlab to "begin" the lab. Follow the directions. Enter your username and the module number 1.



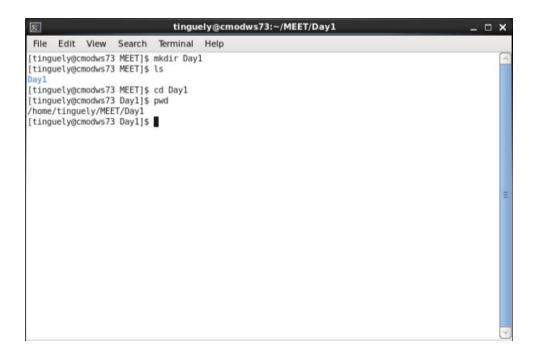
2. Change directory using cd, following the instructions. Type ls to list what files and folders you already have.

What do you see? (Hint: You should see two files: LICENSE and README.md)

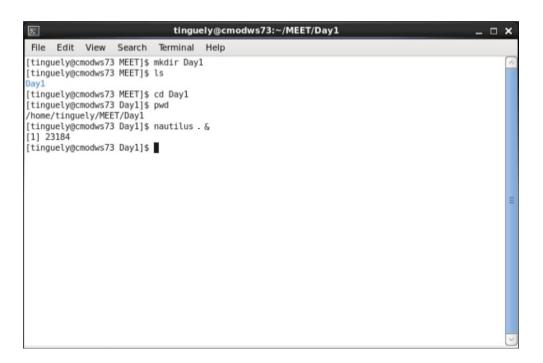
3. **Make a directory called** Day1 using mkdir. Now type 1s again. What do you see now?



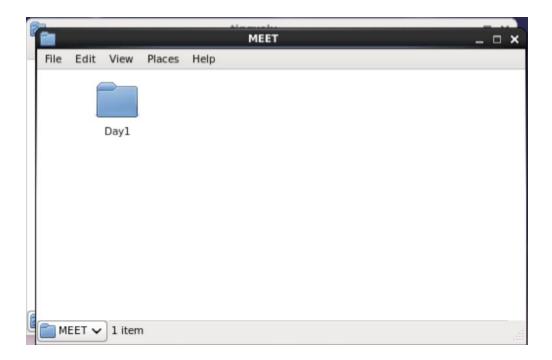
4. Change directories to Day1. Type pwd to print the name of the current folder you are in. Does it say Day1?



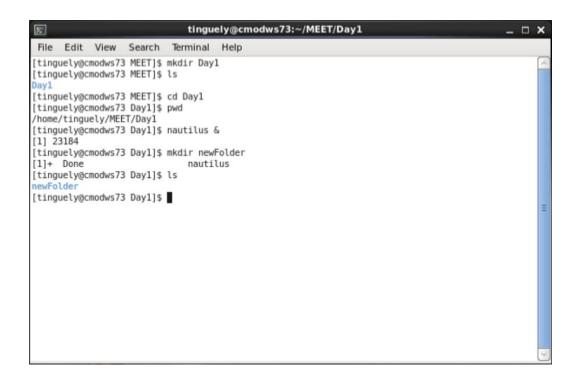
5. Open up the file browser **nautilus** using the command nautilus . & (Make sure you include the period!)



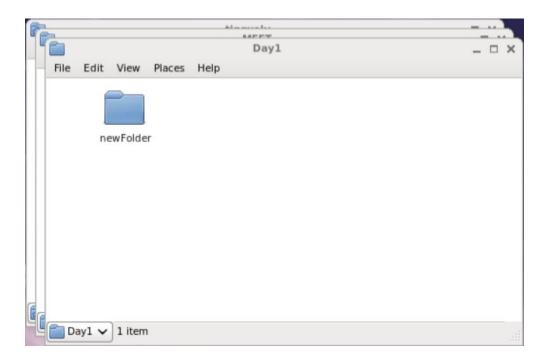
You should see something like this pop up:



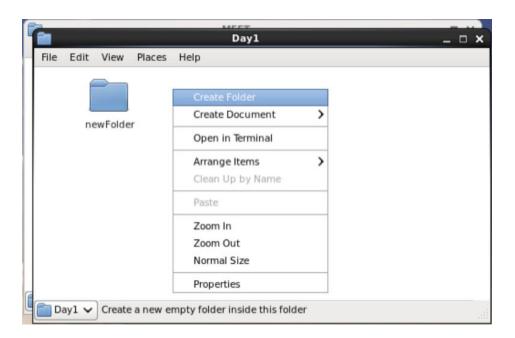
6. In Day1, make a new folder using mkdir called newFolder.
Use 1s to see check that newFolder is there.



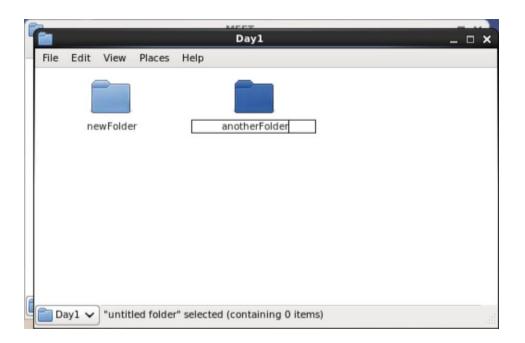
7. Click on the Day1 folder in **nautilus** to see if newFolder is there. (You probably already know how to explore folders this way.)



8. In your Day1 folder in nautilus. Right-click and click Create Folder to make a new folder.



Name it anotherFolder.



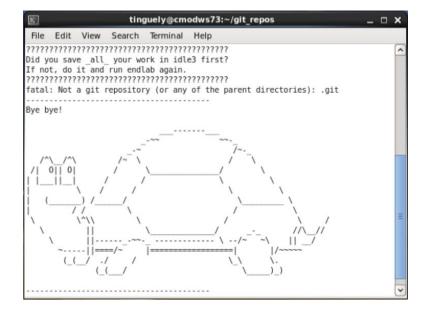
9. In the Linux terminal, type 1s to confirm that anotherFolder is now in Day1.



10. Practice opening other programs like Firefox and IDLE3 using firefox & and idle3 &.

If you have extra time, continue on to the **Bonus Problems** on the next page.

If you are out of time, make sure you type bash endlab



### **Bonus problems:**

- 11. In the Linux terminal Day1 folder, type idle3 newFile.py &. This makes a new Python file called newFile.
- 12. Type ls to confirm that newFile.py is in your Day1 folder.
- 13. Copy newFile.py to newFolder by typing

cp newFile.py newFolder

Change directories to newFolder to check if a copy of newFile.py is there.

You just copied a file!

- 14. Type cd .. (where you include two period points after cd) to change directories to the parent folder Day 1. This means you move back out of newFolder up to the Day1 folder.
- 15. Make anotherFile.py using the idle3 \_\_\_\_ & command as shown in #11.

  Type ls to see if it's there.
- 16. Now move anotherFile.py to anotherFolder by typing
  mv anotherFile.py anotherFolder
- 17. Type ls. You should see that anotherFile.py is no longer in Day1!

But now change directories to anotherFolder. And type ls to see that anotherFile.py is there!

You just moved a file!

DONE! And don't forget to type bash endlab to finish!