Lab - Odds and Ends

Follow the instructions line-by-line.

- * Type in the commands as is, but ignore the beginning prompt.
- * Enter, tab, up and down are represented by <ENTER><TAB>,<UP> and <DOWN>.
- * "No output" or "nothing happens" are valid answers to any of the questions.

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1. Open a new terminal window.

[NO OUTPUT]

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2. In your home directory, start editing a text file called temp.txt using nano.

Write the command you used to do this below.

nano temp.txt

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3. Open another terminal

[NO OUTPUT]

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3. In this terminal, show (list) all running processes / programs.

Write the command that you used to do this, and the last two lines of output.

ps -aux

student 1520 0.0 0.3 4579168 42952 ?? S 4:57PM 0:00.87 /System/Library/

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4. Run the same command, but look for a specific process. (It's the version of the command that has | grep ...). Look for the program that you started to edit a file, nano.

Write the command that you used to do this, and all of the output.

ps aux | grep -i temp.txt

student 1618 0.0 0.0 4258652 24 s000 S+ 5:04PM 0:00.00 grep -i temp.txt student 1586 0.0 0.0 4277224 1188 s001 S+ 5:01PM

0:00.01 nano temp.txt

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5. Stop (kill) the process that's called nano "temp.txt" by using the process id shown in the output of your previous command (first number after user name).

kill 4277224

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6. Go to your other terminal window. What happened to nano? What was the message on the screen?

Last login: Thu Sep 27 16:41:06 on ttys000 ent-v103a-m017:~ student\$ nano temp.txt Received SIGHUP or SIGTERM ent-v103a-m017:~ student\$

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7. Close the terminal window that nano was in, and go back to the terminal where you ran ps.

[NO OUTPUT]

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8. Now... using nano, create a shell script in your home directory called hello.sh. It should contain the following text exactly:

#!/bin/bash
echo "hi there!"

Quit and save when you're done.

What command did you use to do this?

ctrl+x then y and enter I believe also nano hello.sh

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9. Change the permissions (modify) on hello.sh so that the *user* (u) can *execute* (x) it:

Write the commands that you used to do this below.

chmod u+x hello.sh

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10. Run your script (hello.sh).

How did you do this? What was the output?

./hello.sh

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11. Change to the root directory. Try running your script again (hello.sh). What was the output (if there's an error, write it out)?

-bash: ./hello.sh: No such file or directory

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12. Now trying using the full, absolute path to your script (that is, starting with /...). What did you write in? What did it do?

/Users/student/hello.sh hi there!

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13. Go back to the directory that your hello.sh script was in. What command did you use to change to this directory?

cd

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14. Type in the following command:

echo \$PATH

Write down the output of this command

/opt/local/bin:/Applications/anaconda/bin:/usr/local/bin:/usr/bin:/bin:/usr/ sbin:/sbin:/opt/X11/bin:/usr/local/share/dotnet:~/.dotnet/tools:/Library/

Frameworks/Mono.framework/Versions/Current/Commands:/usr/local/mysql/bin/

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15. Type in the following command to show all environment variables:

env

Write down the last two lines of output for this command

_=/usr/bin/env

OLDPWD=/

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16. Set your PATH to include your home directory. Do the following (substituting student or username for professor)

PATH=\$PATH:/Users/professor

Now check your path again.

echo \$PATH

Write down the output of the last command. It should include your home folder.

/opt/local/bin:/Applications/anaconda/bin:/usr/local/bin:/usr/bin:/bin:/usr/
sbin:/sbin:/opt/X11/bin:/usr/local/share/dotnet:~/.dotnet/tools:/Library/
Frameworks/Mono.framework/Versions/Current/Commands:/usr/local/mysql/bin/:/
Users/student

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17. Go back to root (/)

Try running your script simply by typing

hello.sh

It should work now! What is the output?

hi there!

18. Save this file in the repository that you created from parts 1 and 2.

Add and commit it to your local repository and push to the

remote repository. Check github to see that your work was submitted.

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19. Optional - Try writing this shell script!

In your repository, create an executable shell script called make_5_files that creates 10 files in the directory that it's called in. The file names should be:

myfile1.txt

myfile2.txt

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myfile10.txt

Use a for loop to do this. Add and save in your repository, push to the remote.

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20. Optional - Try writing this shell script!

In your repository, create an executable shell script called say_twice. It should take one argument - a filename. It will cat out the contents of that file twice, with a row of dashes between each (use cat, echo... then cat again). Create a test file calle foo.txt ... that contains foo, bar and baz... each on separate lines.

Add and save in your repository, push to the remote.
