CS 279 - Week 1 Lab Exercise - Part 2

Deadline

Due by the end of lab on 2022-08-25.

How to submit

- Submit the files specified below on https://canvas.humboldt.edu

Important notes

- On the public course web site, at the end of the **References** section, there is a handout about how to use **`ssh`** to connect to nrs-projects and how to use **`sftp`** to transfer files to and from nrs-projects.
- Work in PAIRS for this Part 2. (You'll do Part 1 individually in the **first** part of the Week 1 Lab.)

PART 2

In PAIRS --

two people at one computer, one typing (driver), one saying what to type (navigator), both discussing along the way)! --

...create the following script on nrs-projects.

The driver should EMAIL the resulting files for this part to the navigator so BOTH of you can submit it.

- First:
  - make and protect a directory `279lab1` using the commands:

    ```
    mkdir 279lab1
    chmod 700 279lab1
    ```

  - go into that directory using:

    ```
    cd 279lab1
    ```

- In this directory, create a script named `279script1`, and make it executable using the command:

  ```
  chmod 700 279script1
  ```

- start this script with the line that is considered good style (and is a 279 course requirement), that specifies that this script should be executed using the `bash` shell
- after a blank line, put in one or more **comments** saying this is for CS 279's Week 1 Lab Exercise, and include BOTH of your names and today's date
- after a blank line, put in a command that will print both of your names to the screen

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- after a blank line, put in a command that will print to the screen the name of the present working directory from which this script is being run
  - use a command that will work even if someone copies this script elsewhere and runs it! That is, do not hard-code the directory name.
- after a blank line, put in a command that will print to the screen the names of all files currently within the present working directory.
  - do not hard-code these file names, either -- use a command that will determine this each time this script is run
- (Do you want to add a few more commands to your shell script? If so, feel free to do so!)

Now, **demonstrate** your resulting script for me as follows:

- Run: `./279script1 > 279part2-demo.txt`

When you are done with this part:

- use `sftp` on the workstation to transfer your files `279script1` and `279part2-demo.txt` from nrs-projects to one of your Google drives, and make sure to also e-mail those files to the other person, also.
- BOTH of your should then submit copies of your files `279script1` and `279part2-demo.txt` to Canvas for Part 2 of the Week 1 Lab Exercise.

Once both of you have submitted these lab exercise files, you may leave lab if you wish. Or, you can ask questions, read Chapters 5 and 6 of the 2021-update of the course text, etc. But note that questions about today's lab exercise will get first priority.