Bash and GitHub Due Date: Thursday 9/19 @ 11:59 PM

Note on Absolute vs Relative File Paths

Absolute File Paths: The entire path of a file or folder starting with "/" or "/mnt/c/"

- Mac example: /Users/wadeb/Documents/QBIO490/course_description.pdf
- PC Example: /mnt/c/Users/wadeb/Documents/QBIO490/course_calendar.pdf

Relative File Paths: A shortened file path that takes your current location into consideration.

- . represents your current directory, ... represents the previous directory (one above)
- In /Documents folder...

./QBIO490/ = ../Documents/QBIO490/ = /mnt/c/Users/wadeb/Documents/QBIO490/

Answer the following questions about Bash:

- Type out definitions for the following commands and shortcuts in your own words. Refer
 to the slides for definitions of commands, and use google to look up the definitions of any
 unknown shortcuts.
 - a. pwd print working directory, tells you your current directory
 - b. mkdir make directory
 - c. cd <dir> change into another directory
 - d. cd .. move to the previous directory
 - $e. \quad l_S \qquad \qquad \text{list out all files in current directory}$
 - f. rm and the -r flag remove, use '-r' when deleting directories
 - g. cat displays the contents of a file to the terminal
 - h. head display the first 10 lines of a file
 - i. tail display the last 10 lines of a file
 - j. scp copies one directory or file to another location
 - k. nano (including Ctrl+o and Ctrl+x) ctrl+o = save; ctrl+x = exit
 - 1. --help display help information
 - m. TAB auto-completes file and directory names when typing in the terminal
 - n. Ctrl+a move cursor to the beginning of the line
 - o. Ctrl+e move cursor to the end of the line
 - p. Ctrl+r searches through the command history for a previously used command
 - q. Ctrl+k cuts the text from the cursor to the end of the line
 - r. Ctrl+u pastes text that was previously cut using Ctrl+k.
 - s. Ctrl+l clear the terminal
- What command would you use to navigate to your Desktop from /Users/ using an absolute path? Relative path?
 Absolute: cd /Users/shichong/Desktop
 Relative: cd shichong/Desktop
- How would you copy /Desktop/Example Folder/ with multiple documents inside to /Documents/?

cp -r /Desktop/Example\ Folder/ ~/Documents/

• If you didn't know which folder you were in, how would you navigate back to /Documents/?

Use pwd to get current directory, then cd to ~/Documents

Fill in the blank:

- To push your local changes to GitHub, use the following sequence of commands:
 - 1. **git status** to view any unsaved changes.
 - 2. git add to save all files, or to save a specific file/folder.
 - 3. git commit to commit files for saving. Use '-m' to include a message.
 - 4. git push to push your changes to GitHub.

Do it yourself!

- Use commands in Bash to add the completed homework file to your week3_bash_github folder in your local qbio_490_name repository
- ☐ Use GitHub to stage, commit, and upload your completed Bash and Github HW into your personal GitHub repo.

Turn in your answers for this assignment by attaching a link to your personal GitHub repo on Brightspace for full credit