Bash and GitHub
Due Date: Friday 2/3 @ 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 where they tell you which directory you're in currently
    b. mkdir create a new folder
    c. cd <dir> change location to directory within the <>
    d. cd .. change location to previous directory or folder
    e. ls list all items in the current directory
    f. rm and the -r flag delete file/folder/directory
    g. cat shows file(preview of everything)
    h. head shows first ten lines
    i. tail shows last ten lines
    j. scp copy file from one location to another
    k. nano (including Ctrl+o and Ctrl+x) enter nano where you can edit file (O: save and exit, X: edit)
    l. --help explains some known commands
    m. TAB auto completes the command you were writing
    n. Ctrl+a beginning of line
    o. Ctrl+e end of line
    p. Ctrl+r shows previous commands that match what you wrote
    q. Ctrl+k delete line after cursor
    r. Ctrl+u delete line before cursor
    s. Ctrl+l clear

- What command would you use to navigate to your Desktop from /Users/ using an absolute path? Relative path? absolute path: cd /Users/mahijamogalipuvvu/Desktop
  relative path: cd mahijamogalipuvvu/Desktop/

- How would you copy /Desktop/Example Folder/ with multiple documents inside to /Documents/?

  scp -r ExampleFolder ../Documents/

- If you didn't know which folder you were in, how would you navigate back to /Documents/?   by providing the absolute path to Documents: cd /Users/mahijamogalipuvvu/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 create a folder *week4_hw* in your local qbio_490_name repository
- ☐ Save your literature presentation slides to your computer and then use Bash to move them into *week4_hw*
- ☐ Use GitHub to stage, commit, and upload your new folder and presentation slides into your personal GitHub repo.

Turn in your answers to this document and attach a link to your personal GitHub repo on BlackBoard for full credit

scp -r ExampleFolder ../Documents/