Name: _____

Date: _____

Nano Worksheet

Lesson 1

QBIO Public Data Analysis

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Background:

What is Nano? What is a terminal text editor? What will we use Nano for?

> Nano is a simple terminal text editor. A terminal text editor is accessed through your terminal (Ubuntu, iTerm2, etc.) and is a basic editor for any of your files. Terminal text editors are similar to an editor like Microsoft Word, but they work on any file type and are accessed directly through the terminal rather than through an application. Nano is easier to learn than editors such as Emacs or Vim, but it is less powerful and can be cumbersome when making large changes.

Activity:

1. Navigate to your Documents folder using `cd/mnt/c/Users/Kate/Documents`
2. List your documents using `ls`
3. Make a directory named "QBIO_test_folder" using `mkdir`
4. Navigate into "QBIO_test_folder" using `cd`
5. Check that the folder is empty by using `ls`
6. Open your visual file system and view the folder.
7. Return to the terminal to create a document using `nano test.txt`
8. Type a message.
9. Write out, save, and exit your file using `Ctrl-o` and `Ctrl-x`
10. Open your file from your visual file system.
11. Open your file from the terminal using `cat` or `head`
    - REVIEW: What is the difference between `cat` and `head`?
12. Return to Documents using `cd ..`
    - REVIEW: What does using the `..` do? How is this different from just `cd`?
13. From Documents, find the test.txt file using `ls`
14. From Documents, view your message using `cat QBIO_test_folder/test.txt`
    - TIP: Remember that you can autocomplete the name of a directory or file by using `tab`
15. Enter the QBIO_test_folder using `cd`
16. Remove the test.txt file using `rm`
    - NOTE: Be careful when removing files or directories, there is no undo button
17. Check that the test.txt file is removed from your visual file system.

Takeaways:

> When navigating in the terminal, use `cd dir` to _____, `cd ..` to
> _____, `cd` to_____, and `ls` to _____.
> Nano is a _____ text editor that is ideal for making _____ changes to files.
> To save (or "write out") a file, use Ctrl- ___, and then press enter. To exit nano, use Ctrl- ___.
> Use _____ to view an entire file, _____ to view the first 10 lines, or _____ to view the last 10 lines.

Practice:

Inside "QBIO_test_folder" create another folder called "practice_dir." Inside this new folder, create a file named "practice.txt." Write a message in your file, save it, and exit. Use `pwd` (print working directory) to get the file path (the specific location of your file within nested directories), then return to your home directory. All from your home directory, view your file, then delete both "practice.txt" and "practice_dir."