CS3600 - LAB 0   (20 points) Due February 2nd Tuesday

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Step1 [For Windows users]

Download VirtualBox from the below link.

https://www.virtualbox.org/wiki/Downloads

Step 2

Install Ubuntu GNOME in VirtualBox

Install **gcc** using below command

```
$ sudo apt update
```

Check for the compiler

```
$ gcc- version
```

Step 3

Part 1: Give the output/function of the below given commands (Use CLI)

1. $ echo CS3600 Lab 0


```
daniel@daniel-VirtualBox:~$ echo CS3600 Lab 0
CS3600 Lab 0
daniel@daniel-VirtualBox:~$
```

2. $ pwd


```
daniel@daniel-VirtualBox:~$ pwd
/home/daniel
```

3. $ date

    ```
    daniel@daniel-VirtualBox:~$ date
    Thu Jan 28 08:34:57 PM MST 2021
    ```

4. $ dir

    ```
    daniel@daniel-VirtualBox:~$ dir
    Desktop  Documents  Downloads  Music  Pictures  Public  Templates  Videos
    ```

5. $ ls

    ```
    daniel@daniel-VirtualBox:~$ ls
    Desktop  Documents  Downloads  Music  Pictures  Public  Templates  Videos
    ```

6. $ mkdir test
    Creates "test"in directory

7. $ ls
    ls lists files, specifically differently formatting of the files in a more normal way compared to Dir

8. $ date >> mytest

    Doesn't show output but does create a file "mytest" with the date inside

9. $ cat mytest

    ```
    daniel@daniel-VirtualBox:~$ ls
    Desktop  Documents  Downloads  Music  mytest  Pictures  Public  Templates  test  Videos
    daniel@daniel-VirtualBox:~$ cat mytest
    Thu Jan 28 08:40:08 PM MST 2021
    daniel@daniel-VirtualBox:~$
    ```

10. $ rm mytest
    deletes the file

    ```
    daniel@daniel-VirtualBox:~$ rm mytest
    daniel@daniel-VirtualBox:~$ ls
    Desktop  Documents  Downloads  Music  Pictures  Public  Templates  test  Videos
    daniel@daniel-VirtualBox:~$
    ```

Part 2 : Write the command for the following output/function

11.   Display the full path of your home directory.

    $ pwd

12. Go to your home directory.

    $ c or c~

13. List all the files in your current directory.

    $ ls

14. Now, create a new folder called 'temp'.

    $ mkdir temp

15. Rename this folder to 'files'.

    $ mv temp files

16. Go to the 'files' folder.

    $ cd files

17. Run a command to get the current date and time and save the output to a file called 'nw'

    $ date >> nw

18. Copy 'nw' to a file called 'before'

    $ cp nw before

19. List all the files in this directory. Use a more detailed listing where you can see the files' permissions, date written, etc.

    $ ls -l

20. Create a file called 'temp'

    $ touch temp

21. Rename 'temp' to 'test'

    $ mv temp test

22. Go up one directory.

    $ cd..

23. Delete the 'files' folder with a single command. (The command you use should also delete all of the files inside of the folder.)

    $ rm -r before

Part 3: <u>Write the command for the following output/function</u>

17. Create a file called 'secret' containing the text "It's a secret!" using the echo command.

    $ echo "It's a secret!" >> secret

18. Change the permission of this file in such a way so that no one can write to it. Use the ls command to show the file name and permissions. (use chmod command)

    $ chmod -w secret
    $ ls -l secret

19. Try to add more text to 'secret' using the cat command. What is the output?

    "bash: secret: Permission Denied"

20. Try to read the file using cat. What is the output?

    "Secret"

Part 4: <u>Add the resources used to do the lab below.</u>

https://help.ubuntu.com/community/UsingTheTerminal

https://askubuntu.com/questions/21556/how-to-create-an-empty-file-from-command-line

https://www.earthdatascience.org/courses/intro-to-earth-data-science/open-reproducible-science/bash/bash-commands-to-manage-directories-files/#:~:text=Delete%20a%20Directory%20(%20rm%20%2Dr,%2Dr%20directory%2Dname%20).

https://stackoverflow.com/questions/17189237/how-can-i-write-and-append-using-echo-command-to-a-file

https://help.ubuntu.com/community/FilePermissions

https://askubuntu.com/questions/528411/how-do-you-view-file-permissions#:~:text=If%20you%20want%20to%20see,path%2Fto%2Ffile%20command.