

CSC3320 System Level Programming

Lab Assignment 2 - Part 2 (Out-of-lab)

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Purpose: Practice with the basic utilities for managing files and directories in terminal.

Notes:

- Due same day next week by 11:59.
- Write a **report by answering the questions** and upload the report (called Lab2_FirstNameLastName.pdf or Lab2_FirstNameLastName.doc) to Google Classroom no later than **11:59 pm a week from the day are taking this lab session.**

Open your terminal and connect to snowball. Change your directory to your home directory (`cd ~`), and then create a new directory named as "Lab2_P2" (`mkdir Lab2_P2`). After that, go to directory Lab2_P2 (`cd Lab2_P2`) and download a test file by the following command (internet access required):

```
cp /home/frondel1/public/RealEstate.csv .
```

Be sure it succeeds using "ls" to see the file name "RealEstate.csv" listed.

Then please **write the commands you will issue to complete the following tasks step by step. (You cannot use cd to change the working directory during the steps except step (9). Each task requires only one command)**

(1) You may be curious about what information is stored in this file. So please use cat to display the content in "RealEstate.csv " using a relative pathname.

```
cat RealEstate.csv
```

(2) We know that cat is good for showing the content of a small file. But since the file contains many lines, maybe you still cannot find out what information this files stores after step (1). So please use head to list the first three lines in "RealEstate.csv ".

```
head RealEstate.csv
```

(3) Use wc to check the number of homes sold out in "RealEstate.csv" .

`wc RealEstate.csv`

(4) Finish the task in step (3) by using the cat command.

`cat RealEstate.csv`

(5) Use mkdir to create a new directory "public" under your own home directory using relative pathname.

`mkdir public`

(6) Copy "RealEstate.csv" into your "public" directory and name it as "myRealEstate.csv".

`cp /home/vdo10/Lab2_P2/RealEstate.csv /home/vdo10/public/myRealEstate.csv`

(7) Display the absolute pathname for current working directory.

`pwd`

(8) Check the existence of "myRealEstate.csv" using ls with an absolute pathname.

`ls`

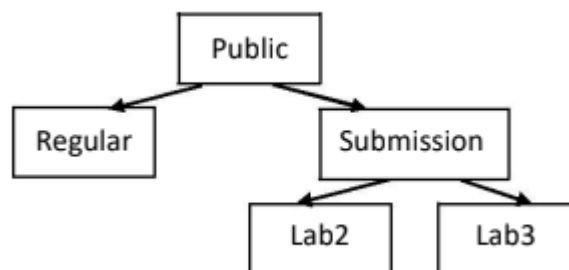
(9) Go into your "public" directory using relative pathname.

`cd public`

(10) Use mkdir to create a file structure as below in your "Public" directory using relative pathnames.

`mkdir {Regular,Submission}`

*you would have to use the same commands to create Lab2 and Lab3 files in Submission



(11) Rename the directory "Regular" as "Others".

`mv Regular Others`

(12) Use cp to copy directory "Lab2_P2" from your home directory to "Lab2" using relative pathname.

```
cp -r /home/vdo10/Lab2_P2 /home/vdo10/public/Submission/Lab2
```

(13) Remove the directory "Lab2_P2" which locates at your home directory.

```
rmdir Lab2_P2
```

****before removing this directory, you would have to go in and remove all of the contents/files of each folder inside the directory before removing the directory as a whole**

(14) Use history to list the commands you previously typed.

```
history
```

(15) Store the last 50 commands you typed neatly into a file "Lab2_2.txt", one command per line and submit it in Google Classroom.

Here are my last 50 commands stored below:

*****I will also include a txt file for the last 50 commands upon submitting the lab!**

```
18 cd
```

```
19 cd ~
```

```
20 ls
```

```
21 mkdir Lab2_P2
```

```
22 cd Lab2_P2
```

```
23 cp /home/bbello1/public/RealEstate.csv
```

```
24 cp /home/bbello1/public/RealEstate.csv .
```

```
25 cat RealEstate.csv
```

```
26 cat RealEstate.csv
```

```
27 head RealEstate.csv
```

```
28 wc RealEstate.csv
```

```
29 cat
```

```
30 cd ~
```

```
31 ls
```

```
32 cd Lab2_P2
33 ls
34 cat RealEstate.csv
35 head RealEstate.csv
36 wc RealEstate.csv
37 cat RealEstate.csv
38 cd
39 mkdir public
40 cd public
41 ls
42 cp /home/vdo10/Lab2_P2/RealEstate.csv /home/vdo10/public/myRealEstate.csv
43 pwd
44 ls
45 mkdir {Regular,Submission}
46 ls
47 cd Submission
48 mkdir {Lab2,Lab3}
49 ls
50 cd Lab2
51 cd
52 cd public
53 ls
54 mv Regular Others
55 cd Submission
56 cd Lab2
57 cp -r /home/vdo10/Lab2_P2 /home/vdo10/public/Submission/Lab2
58 ls
59 cd
```

```
60 cd Lab2_P2
61 ls
62 rm RealEstate.csv
63 cd
64 rmdir Lab2_P2
65 cd
66 ls
67 public
68 history
```