

CSC3320 System Level Programming

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

Instructor: Fil Rondel

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 file stores after step (1). So please use head to list the first three lines in "RealEstate.csv".

```
head -n 3 RealEstate.csv
```

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

```
wc -l RealEstate.csv
```

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

```
cat -b 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 RealEstate.csv myRealEstate.csv
```

```
cp myRealEstate.csv ../public
```

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

```
pwd
```

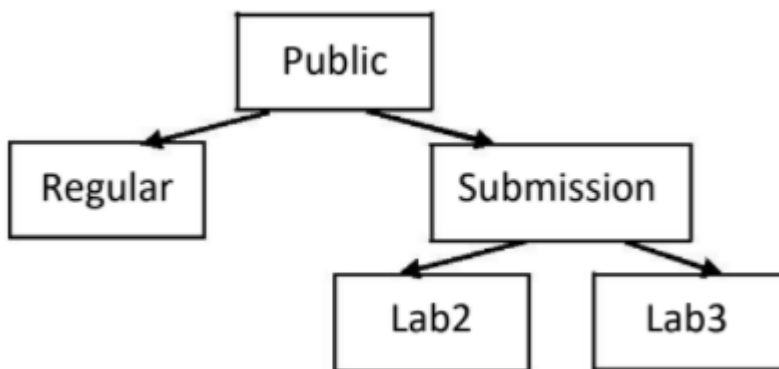
(8) Check the existence of "myRealEstate.csv" using ls with an absolute pathname.

```
ls /home/kgallardowepster1/public
```

(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 Submission/Lab2 Submission/Lab3
```

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

```
mv -i Regular Others
```

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

```
cp -ir ../Lab2_P2 Submission/Lab2
```

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

```
rm -fir ../Lab2_P2
```

(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.