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class: cis106

semester: spring 22

# Lab 4 | The Linux Filesystem

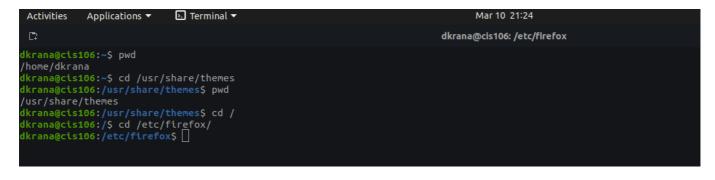
## Question 1

### Table 1

| Directory | Function   |  |  |
|-----------|--|--|--|
| bin       | has the essential commands that includes many commands, scripts, and executable files                        |  |  |
| dev       | provide device files   |  |  |
| etc       | has system configuration files, which can be edited by a text editor   |  |  |
| home      | contains a home folder for each user. It contains the user's data file and user-specific configuration files |  |  |
| media     | mount point for removable media, such as DVDs and floppy disks   |  |  |
| opt       | add-on software packages that are optional   |  |  |
| ргос      | contains kernel information, process control, system hardware information                                    |  |  |
| STV       | contains information relating to services that run on the system   |  |  |
| usr       | software not essential for system operation, such as applications  |  |  |

### Table 2

| Command | What it does   | Syntax                    | Example  |
|---------|--|---------------------------|--|
| cd      | used for changing the current working directory                                | cd +<br>destination       | cd Downloads   |
| pwd     | displays the current working directory   | pwd                       | type pwd on command line and it shows current directory in the next line like /home/jdoe |
| ls      | used for listing the content of a given directory or the file/directory itself | ls +<br>directory<br>name | ls ~/practicels  |



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Activities Applications 

Terminal 

Activities Applications 

Applications 

Activities Applications 

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Activities Applications Description  

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```
dkrana@cis106:~/lab4files$ cd /etc/
dkrana@cis106:/etc$ tree ~/lab4files/
/home/dkrana/lab4files/
— countries.json
— csvfile.csv
— document.docx
— globe.avi
— helloWorld.c
— Linux.pdf
— sample.xls
— Tux.png
— Ubuntu.pdf
— website.html
0 directories, 10 files
dkrana@cis106:/etc$ [
```

```
dkrana@cis106:~/Downloads$ tree ../lab4files/ -tug
   [dkrana
             dkrana ]
                        Linux.pdf
   [dkrana
             dkrana
   [dkrana
             dkrana
                        Ubuntu.pdf
   [dkrana
             dkrana
                        sample.xls
   [dkrana
             dkrana
   [dkrana
             dkrana ] document.docx
   [dkrana
                       csvfile.csv
   [dkrana
             dkrana
                        countries.json
                        website.html
   [dkrana
             dkrana
                        helloWorld.c
   [dkrana
             dkrana
0 directories, 10 files
```

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Activities Applications * La Terminal * Address and the properties of the properties
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```
dkrana@cis106:-$ exa -l lab4files/
.rw-rw-r-- 20k dkrana 22 Feb 14:16 countries.json
.rw-rw-r-- 284k dkrana 22 Feb 14:15 csvfile.csv
.rw-rw-r-- 764k dkrana 22 Feb 14:13 document.docx
.rw-rw-r-- 764k dkrana 22 Feb 14:12 globe.avi
.rw-rw-r-- 76 dkrana 22 Feb 14:18 helloWorld.c
.rw-rw-r-- 2.6M dkrana 22 Feb 14:10 Linux.pdf
.rw-rw-r-- 8.7k dkrana 22 Feb 14:10 Linux.pdf
.rw-rw-r-- 43k dkrana 22 Feb 14:10 Tux.png
.rw-rw-r-- 2.1M dkrana 22 Feb 14:11 Ubuntu.pdf
.rw-rw-r-- 137k dkrana 22 Feb 14:16 website.html
dkrana@cis106:~$ exa -T lab4files/
lab4files

- countries.json
- csvfile.csv
- document.docx
- globe.avi
- helloWorld.c
- Linux.pdf
- sample.xls
- Tux.png
- Ubuntu.pdf
- website.html
```