

Week Report 4

Practice from the presentation the Linux File System:

Practice 1

```
anmelgar@cis106:~$ pwd
/home/anmelgar
anmelgar@cis106:~$ cd /home/anmelgar/Downloads
anmelgar@cis106:~/Downloads$ pwd
/home/anmelgar/Downloads
anmelgar@cis106:~/Downloads$ cd ..
anmelgar@cis106:~$ cd ../../
anmelgar@cis106:/$ pwd
/
anmelgar@cis106:/$ cd -
/home/anmelgar
anmelgar@cis106:~$ _
```

Practice 2

```

anmelgar@cis106:~$ cd /practicels/
bash: cd: /practicels/: No such file or directory
anmelgar@cis106:~$ cd practicels
anmelgar@cis106:~/practicels$ ls
book.txt          history-debian.pdf  movie.mp4  song.mp3      tux-penguin.gif
countries.xml     homework.docx      people.csv  tux-nobg.png
anmelgar@cis106:~/practicels$ ls -a
.  book.txt          history-debian.pdf  movie.mp4  song.mp3      tux-penguin.gif
.. countries.xml     homework.docx      people.csv  tux-nobg.png
anmelgar@cis106:~/practicels$ ls -l
total 2932
-rw-rw-r-- 1 anmelgar anmelgar  1043 Feb 27  2022 book.txt
-rw-rw-r-- 1 anmelgar anmelgar 23972 Feb 27  2022 countries.xml
-rw-rw-r-- 1 anmelgar anmelgar 163057 Feb 27  2022 history-debian.pdf
-rw-rw-r-- 1 anmelgar anmelgar 111303 Feb 22  2022 homework.docx
-rw-rw-r-- 1 anmelgar anmelgar 1570024 Feb 27  2022 movie.mp4
-rw-rw-r-- 1 anmelgar anmelgar 284042 Feb 27  2022 people.csv
-rw-rw-r-- 1 anmelgar anmelgar 764176 Feb 27  2022 song.mp3
-rw-rw-r-- 1 anmelgar anmelgar 21314 Feb 27  2022 tux-nobg.png
-rw-rw-r-- 1 anmelgar anmelgar 44299 Jan 31  2020 tux-penguin.gif
anmelgar@cis106:~/practicels$ ls -lh
total 2.9M
-rw-rw-r-- 1 anmelgar anmelgar 1.1K Feb 27  2022 book.txt
-rw-rw-r-- 1 anmelgar anmelgar 24K Feb 27  2022 countries.xml
-rw-rw-r-- 1 anmelgar anmelgar 160K Feb 27  2022 history-debian.pdf
-rw-rw-r-- 1 anmelgar anmelgar 109K Feb 22  2022 homework.docx
-rw-rw-r-- 1 anmelgar anmelgar 1.5M Feb 27  2022 movie.mp4
-rw-rw-r-- 1 anmelgar anmelgar 278K Feb 27  2022 people.csv
-rw-rw-r-- 1 anmelgar anmelgar 747K Feb 27  2022 song.mp3
-rw-rw-r-- 1 anmelgar anmelgar 21K Feb 27  2022 tux-nobg.png
-rw-rw-r-- 1 anmelgar anmelgar 44K Jan 31  2020 tux-penguin.gif
anmelgar@cis106:~/practicels$ ls -lht
total 2.9M

```

```

anmelgar@cis106:~/practicels$ ls -lht
total 2.9M
-rw-rw-r-- 1 anmelgar anmelgar 24K Feb 27  2022 countries.xml
-rw-rw-r-- 1 anmelgar anmelgar 278K Feb 27  2022 people.csv
-rw-rw-r-- 1 anmelgar anmelgar 747K Feb 27  2022 song.mp3
-rw-rw-r-- 1 anmelgar anmelgar 1.5M Feb 27  2022 movie.mp4
-rw-rw-r-- 1 anmelgar anmelgar 160K Feb 27  2022 history-debian.pdf
-rw-rw-r-- 1 anmelgar anmelgar 21K Feb 27  2022 tux-nobg.png
-rw-rw-r-- 1 anmelgar anmelgar 1.1K Feb 27  2022 book.txt
-rw-rw-r-- 1 anmelgar anmelgar 109K Feb 22  2022 homework.docx
-rw-rw-r-- 1 anmelgar anmelgar 44K Jan 31  2020 tux-penguin.gif
anmelgar@cis106:~/practicels$ ls -lhGs
total 2.9M
4.0K -rw-rw-r-- 1 anmelgar 1.1K Feb 27  2022 book.txt
24K -rw-rw-r-- 1 anmelgar 24K Feb 27  2022 countries.xml
160K -rw-rw-r-- 1 anmelgar 160K Feb 27  2022 history-debian.pdf
112K -rw-rw-r-- 1 anmelgar 109K Feb 22  2022 homework.docx
1.5M -rw-rw-r-- 1 anmelgar 1.5M Feb 27  2022 movie.mp4
280K -rw-rw-r-- 1 anmelgar 278K Feb 27  2022 people.csv
748K -rw-rw-r-- 1 anmelgar 747K Feb 27  2022 song.mp3
24K -rw-rw-r-- 1 anmelgar 21K Feb 27  2022 tux-nobg.png
44K -rw-rw-r-- 1 anmelgar 44K Jan 31  2020 tux-penguin.gif

```

```
anmelgar@cis106:~/practicels$ ls -lmr  
tux-penguin.gif, tux-nobg.png, song.mp3, people.csv, movie.mp4, homework.docx,  
history-debian.pdf, countries.xml, book.txt
```

```
anmelgar@cis106:~/practicels$ ls -lx1  
book.txt  
countries.xml  
history-debian.pdf  
homework.docx  
movie.mp4  
people.csv  
song.mp3  
tux-nobg.png  
tux-penguin.gif
```

Practice 3

```
anmelgar@cis106:~$ pwd
/home/anmelgar
anmelgar@cis106:~$ cd /
anmelgar@cis106:/$ cd /usr/share/themes
anmelgar@cis106:/usr/share/themes$ cd ../../
anmelgar@cis106:/usr$ ls -A ~
.bash_history
.bash_logout
.bashrc
.cache
cis106
.cis106.png
cis106.zip
.config
Desktop
Documents
.dotnet
Downloads
.fonts
gitcommands.txt
.gitconfig
.gnupg
lab4files
.local
Music
Pictures
.pki
practicels
.profile
Public
snap
.ssh
.sudo_as_admin_successful
Templates
```

```
Templates
.vboxclient-clipboard-tty2-control.pid
.vboxclient-clipboard-tty2-service.pid
.vboxclient-draganddrop-tty2-control.pid
.vboxclient-draganddrop-tty2-service.pid
.vboxclient-hostversion-tty2-control.pid
.vboxclient-seamless-tty2-control.pid
.vboxclient-seamless-tty2-service.pid
.vboxclient-vmvga-session-tty2-control.pid
.vboxclient-vmvga-session-tty2-service.pid
Videos
.vscode
anmelgar@cis106:/usr$ cd; ls -tX cis106/
CheatSheet Labs WeekReports
anmelgar@cis106:~$ ls -rR ~/cis106/
/home/anmelgar/cis106/:
WeekReports Labs CheatSheet
```



```
/home/annelgar/cis106/WeekReports:  
wr4-p2.4.png  wr4-p1.png  fs1.3.png  
wr4-p2.3.png  wr4.md      fs1.2.png  
wr4-p2.2.png  wr3.pdf     fs1.1.png  
wr4-p2.1.png  wr3.md
```

```
/home/annelgar/cis106/Labs:  
'Lab 4'  'Lab 3'  'Lab 2'  'Lab 1'
```

```
'/home/annelgar/cis106/Labs/Lab 4':  
lab4.5.2.png  lab4.2.3.png  
lab4.5.1.png  lab4.2.2.png  
lab4.4.4.png  lab4.2.1.png  
lab4.4.3.png  lab4.1.png  
lab4.4.2.png  lab4.1.2.png  
lab4.4.1.png
```

```
'/home/annelgar/cis106/Labs/Lab 3':  
wiki.pdf  q1.1.png  lab3.pdf  
q2.1.png  presentation.odp  lab3.md
```

```
'/home/annelgar/cis106/Labs/Lab 2':  
question4.PNG  question1.1.PNG  
question3.PNG  lab2.pdf  
question2.PNG  lab2.md  
question1.2.PNG
```

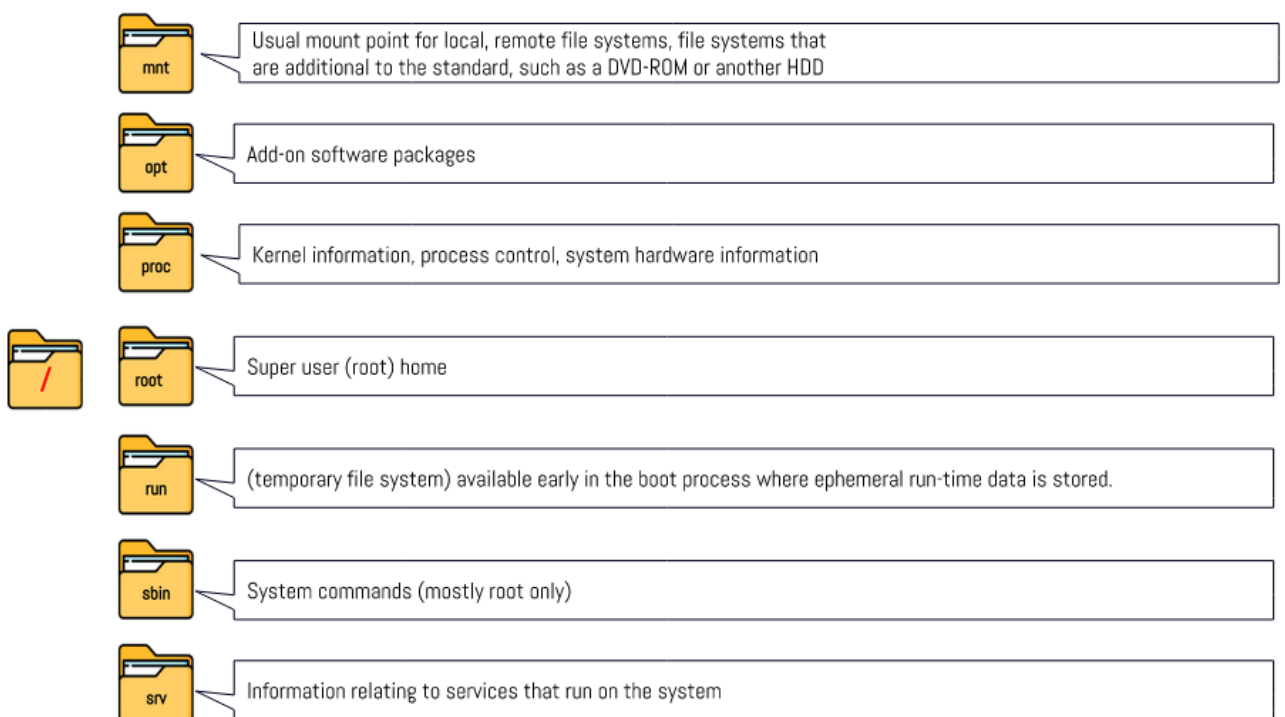
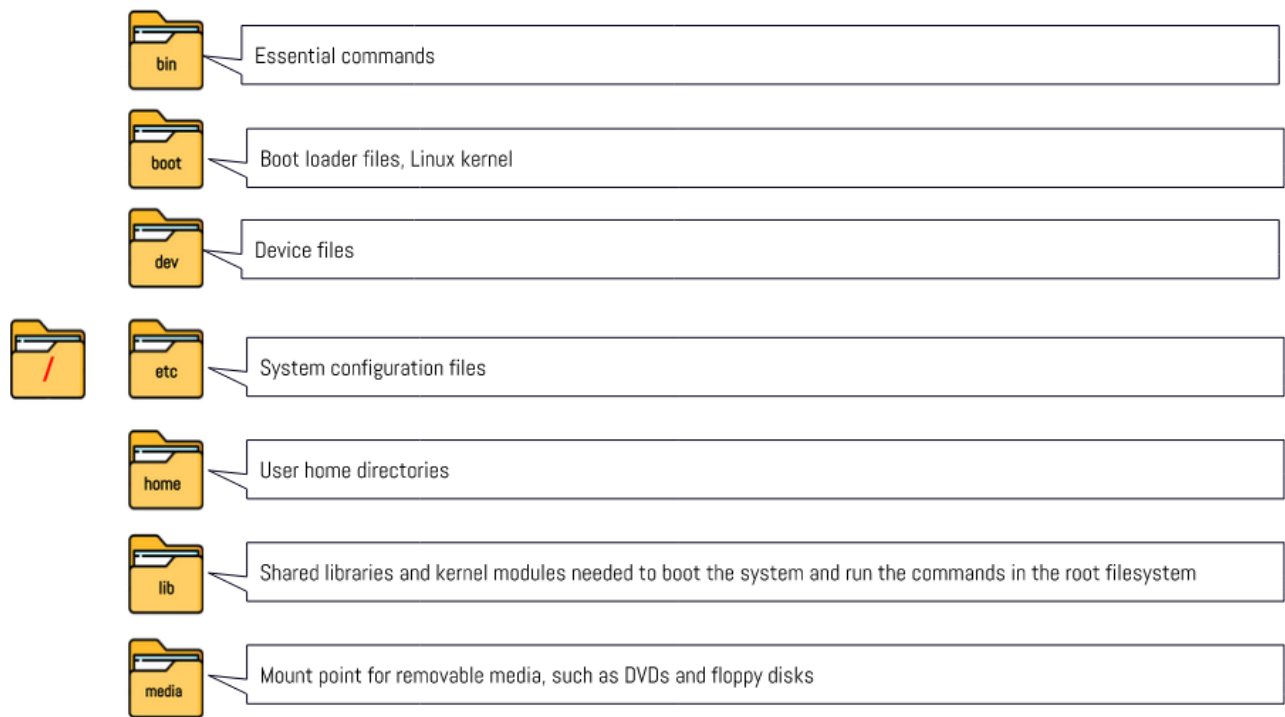
```
'/home/annelgar/cis106/Labs/Lab 1':  
whatisubuntu.txt  
what_is_ubuntu_submission.pdf  
what_is_ubuntu_submission.md  
what_is_ubuntu_submission.html  
what-is-ubuntu.pdf  
ubuntu-logo.png  
ubuntu-desktop.png  
resume.png  
resume.pdf  
resume.md  
resume.html  
johndoe.jpeg  
johndoeinfo.txt
```

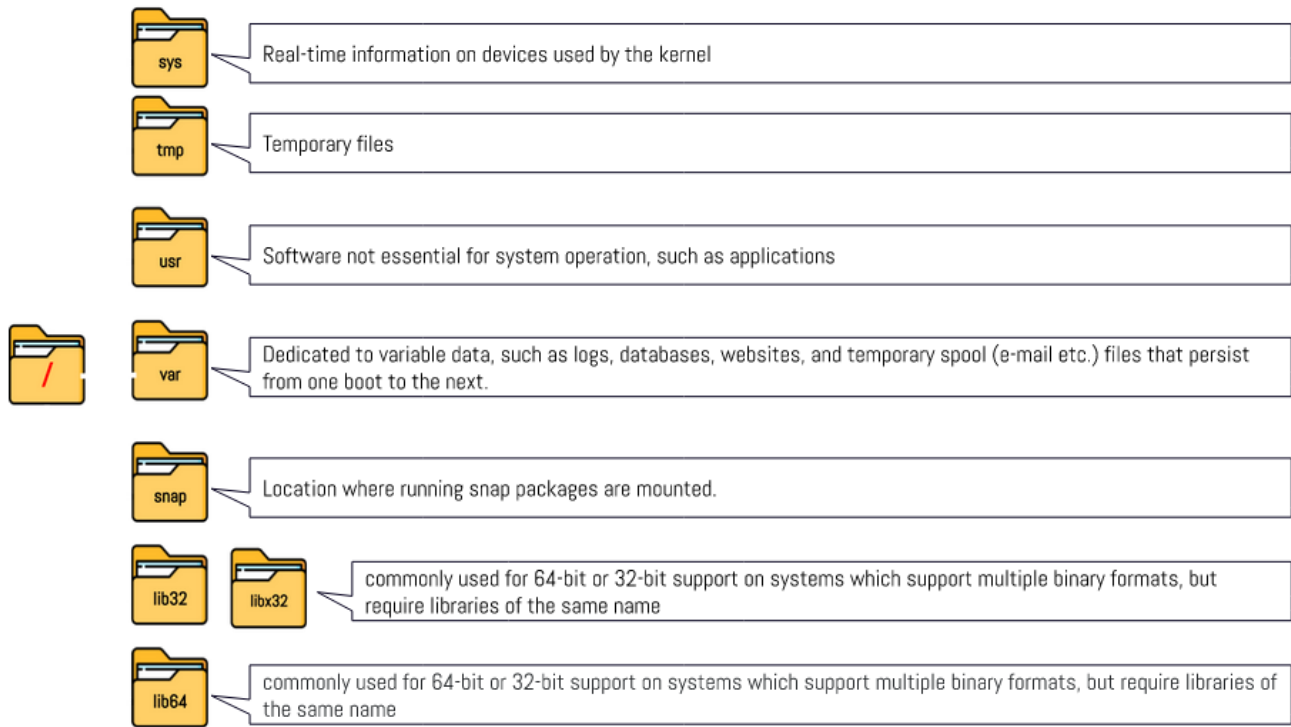
```
/home/annelgar/cis106/CheatSheet:  
'Linux Workshop Ubuntu Software installation cheat sheet.png'
```

```
anmelgar@cis106:~$ ls -lh ~
total 8.1M
drwxrwxr-x 6 anmelgar anmelgar 4.0K Oct 10 19:10 cis106
-rw-rw-r-- 1 anmelgar anmelgar 8.1M Oct 10 17:31 cis106.zip
drwxr-xr-x 2 anmelgar anmelgar 4.0K Oct 10 21:50 Desktop
drwxr-xr-x 2 anmelgar anmelgar 4.0K Sep 26 12:56 Documents
drwxr-xr-x 2 anmelgar anmelgar 4.0K Oct 26 12:33 Downloads
-rw-rw-r-- 1 anmelgar anmelgar  91 Sep 26 14:33 gitcommands.txt
drwxrwxr-x 2 anmelgar anmelgar 4.0K Feb 22  2022 lab4files
drwxr-xr-x 2 anmelgar anmelgar 4.0K Sep 26 12:56 Music
drwxr-xr-x 2 anmelgar anmelgar 4.0K Oct 26 11:56 Pictures
drwxrwxr-x 2 anmelgar anmelgar 4.0K Feb 27  2022 practicels
drwxr-xr-x 2 anmelgar anmelgar 4.0K Sep 26 12:56 Public
drwx----- 5 anmelgar anmelgar 4.0K Sep 26 13:43 snap
drwxr-xr-x 2 anmelgar anmelgar 4.0K Sep 26 12:56 Templates
drwxr-xr-x 2 anmelgar anmelgar 4.0K Sep 26 12:56 Videos
```

```
anmelgar@cis106:~$ ls -lgGt
total 8284
drwxr-xr-x 2      4096 Oct 26 12:33 Downloads
drwxr-xr-x 2      4096 Oct 26 11:56 Pictures
drwxr-xr-x 2      4096 Oct 10 21:50 Desktop
drwxrwxr-x 6      4096 Oct 10 19:10 cis106
-rw-rw-r-- 1 8429328 Oct 10 17:31 cis106.zip
-rw-rw-r-- 1      91 Sep 26 14:33 gitcommands.txt
drwx----- 5      4096 Sep 26 13:43 snap
drwxr-xr-x 2      4096 Sep 26 12:56 Documents
drwxr-xr-x 2      4096 Sep 26 12:56 Music
drwxr-xr-x 2      4096 Sep 26 12:56 Public
drwxr-xr-x 2      4096 Sep 26 12:56 Templates
drwxr-xr-x 2      4096 Sep 26 12:56 Videos
drwxrwxr-x 2      4096 Feb 27  2022 practicels
drwxrwxr-x 2      4096 Feb 22  2022 lab4files
```

The Linux File system directories and their purpose:





All the commands for navigating the filesystem

Command	What it does	Syntax	Example
pwd	prints current directory	pwd	pwd
cd	current working directory	cd + destination	cd + Download
ls	list the content of the present working directory	ls + option + directory to list	ls + -t ~/Documents

Basic terminology

File system: The way files are stored and organized. **Current directory:** Directory where you are. **parent directory:** Working inside a particular directory. You can move forward or backwards directories. **the difference between your home directory and the home directory:** current working(home) and root of directory. **pathname:** file that indicates the location of a file. **relative path:** location of a file starting at the root. **absolute path:** location of a file starting current working directory.