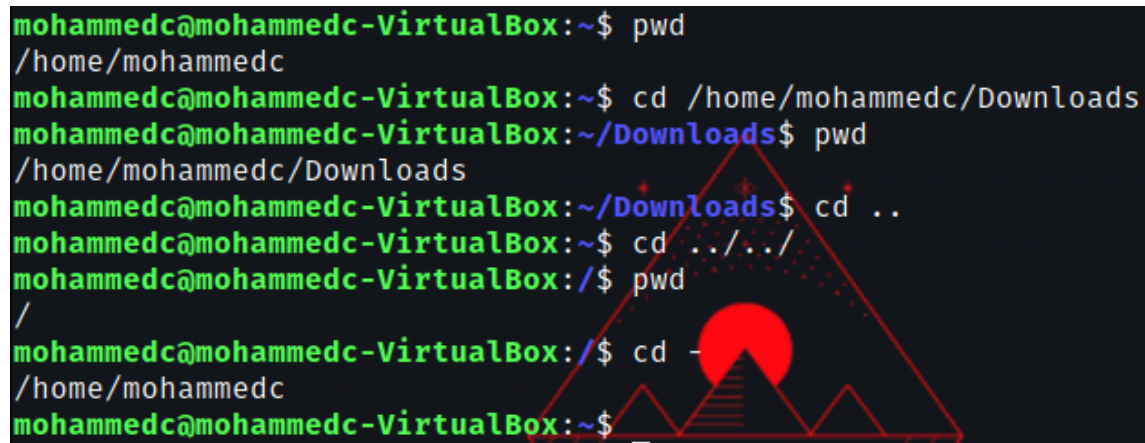


Week Report 4

Practice from the presentation The Linux File system:

Practice 1

A terminal window showing a series of directory navigation commands. A red geometric overlay, resembling a stylized mountain or pyramid with a sun/moon, is positioned over the right side of the terminal text.

```
mohammedc@mohammedc-VirtualBox:~$ pwd
/home/mohammedc
mohammedc@mohammedc-VirtualBox:~$ cd /home/mohammedc/Downloads
mohammedc@mohammedc-VirtualBox:~/Downloads$ pwd
/home/mohammedc/Downloads
mohammedc@mohammedc-VirtualBox:~/Downloads$ cd ..
mohammedc@mohammedc-VirtualBox:~$ cd ../../
mohammedc@mohammedc-VirtualBox:/$ pwd
/
mohammedc@mohammedc-VirtualBox:/$ cd -
/home/mohammedc
mohammedc@mohammedc-VirtualBox:~$
```

Practice 2

```

mohammedc@mohammedc-VirtualBox:~$ wget https://cis106.com/assets/practicels.tar.xz
--2023-12-01 21:36:26-- https://cis106.com/assets/practicels.tar.xz
resolving cis106.com (cis106.com)... 185.199.108.153
connecting to cis106.com (cis106.com)[185.199.108.153]:443... connected.
HTTP request sent, awaiting response... 200 OK
length: 2229212 (2.1M) [application/x-xz]
saving to: 'practicels.tar.xz.1'

```

```

practicels.tar.x 100%[=====>] 2.12M --.-KB/s in 0.1s
2023-12-01 21:36:26 (17.3 MB/s) - 'practicels.tar.xz.1' saved [2229212/2229212]

```

```

mohammedc@mohammedc-VirtualBox:~$ tar Jxf practicels.tar.xz

```

```

mohammedc@mohammedc-VirtualBox:~$ cd practicels/

```

```

mohammedc@mohammedc-VirtualBox:~/practicels$ ls

```

```

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

```

```

mohammedc@mohammedc-VirtualBox:~/practicels$ ls -l

```

```

total 2932
-rw-rw-r-- 1 mohammedc mohammedc 1043 Feb 27 2022 book.txt
-rw-rw-r-- 1 mohammedc mohammedc 23972 Feb 27 2022 countries.xml
-rw-rw-r-- 1 mohammedc mohammedc 163057 Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 mohammedc mohammedc 111303 Feb 22 2022 homework.docx
-rw-rw-r-- 1 mohammedc mohammedc 1570024 Feb 27 2022 movie.mp4
-rw-rw-r-- 1 mohammedc mohammedc 284042 Feb 27 2022 people.csv

```

```

mohammedc@mohammedc-VirtualBox:~/practicels$ ls -lhGS

```

```

total 2.9M
-rw-rw-r-- 1 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 44K Jan 31 2020 tux-penguin.gif
-rw-rw-r-- 1 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 1.1K Feb 27 2022 book.txt

```

```

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

```

```

mohammedc@mohammedc-VirtualBox:~/practicels$ ls -lX

```

```

people.csv
homework.docx
tux-penguin.gif
song.mp3
movie.mp4
history-debian.pdf
tux-nobg.png
book.txt
countries.xml

```

```

mohammedc@mohammedc-VirtualBox:~/practicels$ _

```

Practice 3

```
mohammedc@mohammedc-VirtualBox:~$ pwd
/home/mohammedc
mohammedc@mohammedc-VirtualBox:~$ cd
mohammedc@mohammedc-VirtualBox:~$ cd /
mohammedc@mohammedc-VirtualBox:/$ cd usr/share/themes
mohammedc@mohammedc-VirtualBox:/usr/share/themes$ cd ../../
mohammedc@mohammedc-VirtualBox:/usr$ ls -A ~
allmydocs.txt
allmyfiles.txt
.bash_aliases
.bash_history
.bash_logout
.bashrc
.cache
challenge-Lab6
cis106
.cis106.png
.config
Desktop
Documents
.dotnet
Downloads
.fonts
'git commands.txt'
.gitconfig
```

```
mohammedc@mohammedc-VirtualBox:~$ cd; ls -tX cis106/
Cheatsheets labs weekReports
mohammedc@mohammedc-VirtualBox:~$ ls -rR ~/cis106/
/home/mohammedc/cis106/:
weekReports labs Cheatsheets

/home/mohammedc/cis106/weekReports:
wr4-p2.3.png wr4-p2.1.png wr4.md wr3.md
wr4-p2.2.png wr4-p1.png wr3.pdf

/home/mohammedc/cis106/labs:
lab7 lab6 lab5 lab4 lab3 lab2 lab1

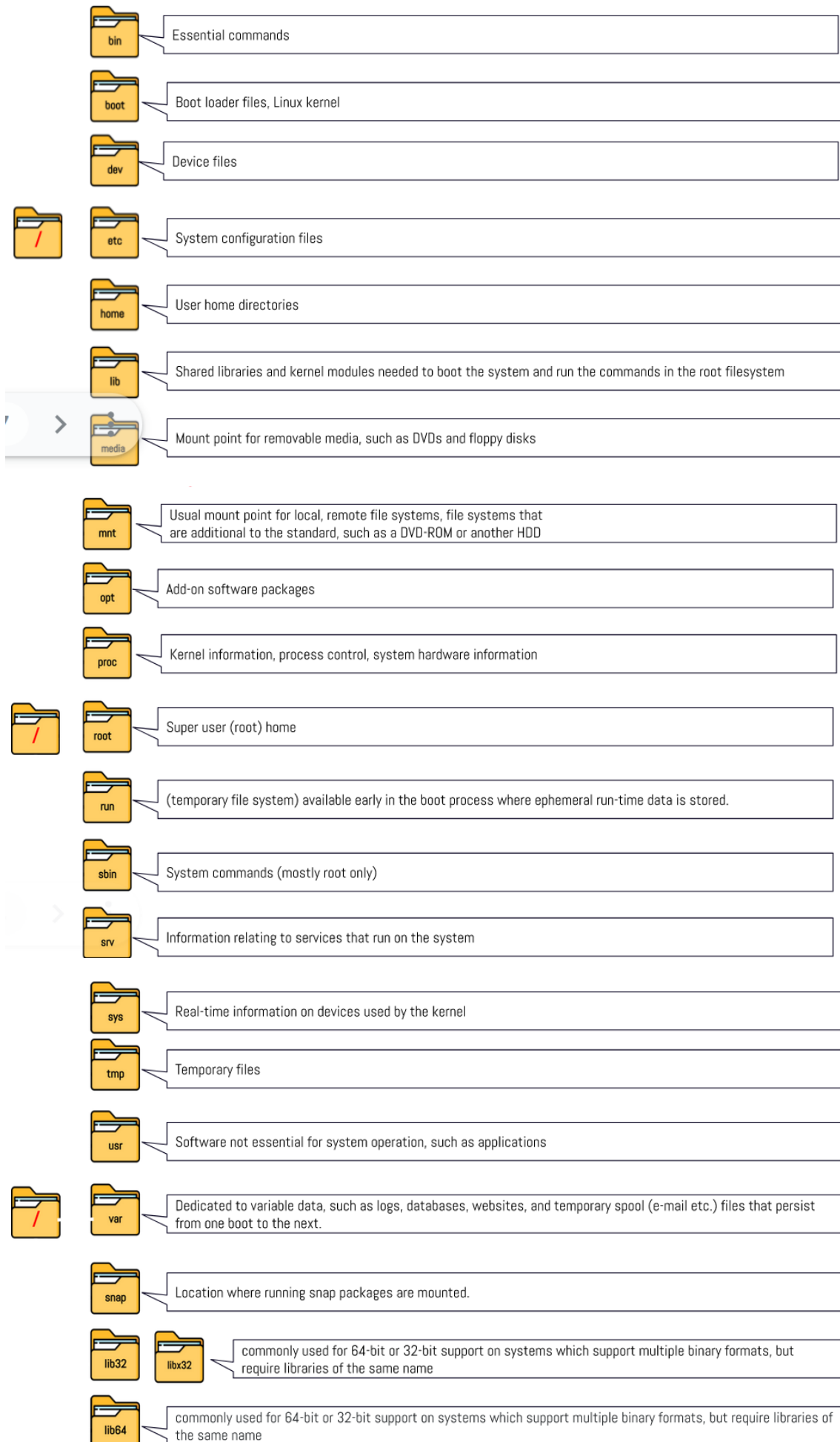
/home/mohammedc/cis106/labs/lab7:
```

```

drwxrwxr-x  2 mohammedc mohammedc 4.0K Nov  5 21:56 lab5-au
drwxrwxr-x  3 mohammedc mohammedc 4.0K Nov  5 23:00 lab5Cha
estion
drwxrwxr-x  2 mohammedc mohammedc 4.0K Nov  5 22:00 lab5-do
drwxrwxr-x  2 mohammedc mohammedc 4.0K Nov  5 21:57 lab5-im
drwxrwxr-x  2 mohammedc mohammedc 4.0K Nov  5 21:58 lab5-vi
drwxrwxr-x 10 mohammedc mohammedc 4.0K Nov 18 15:48 lab6
drwxrwxr-x  3 mohammedc mohammedc 4.0K Nov 18 15:11 lab6-q5
drwxr-xr-x  2 mohammedc mohammedc 4.0K Sep 29 14:42 Music
drwxr-xr-x  5 mohammedc mohammedc 4.0K Nov 30 22:11 Picture
drwxrwxr-x  2 mohammedc mohammedc 4.0K Feb 27 2022 practic
-rw-rw-r--  1 mohammedc mohammedc 2.2M Nov  5 21:00 practic
xz
drwxr-xr-x  2 mohammedc mohammedc 4.0K Sep 29 14:42 Public
-rw-rw-r--  1 mohammedc mohammedc   35 Nov 30 20:33 shoppin
drwx-----  5 mohammedc mohammedc 4.0K Sep 29 22:42 snap
-rw-rw-r--  1 mohammedc mohammedc   55 Nov 30 20:33 tasks.t
drwxr-xr-x  2 mohammedc mohammedc 4.0K Sep 29 14:42 Templat
drwxr-xr-x  2 mohammedc mohammedc 4.0K Sep 29 14:42 Videos
mohammedc@mohammedc-VirtualBox:~$ ls -lgG -full-time ~

```

The Linux File system directories and their purpose:



All the commands for navigating the filesystem

Command	What it does	Syntax	Example
pwd	used for displaying the current working directory	pwd	'pwd'
cd	used for changing the current working directory	cd	cd Downloads
ls	used for displaying all the files inside a given directory	ls	ls -a

Basic terminology

File system- The way files are stored and organized.

Current directory- The directory where you are at the moment is called current directory.

parent directory- Where you can move forward to a subdirectory or backwards to the previous directory.

the difference between your home directory and the home directory The difference is that home directory meaning your specific folder on your computer and The home directory does not mention specific folder.

pathname- Every file has a pathname which indicates the location of the file in the filesystem like an address.

relative path- The location of a file starting a the root of the file system.

absolute path- The location of a file from the current working directory that is located inside the current working directory.