# Week Report 4

# PRACTICE FROM THE PRESENTATION THE LINUX FILE SYSTEM:

practice 1

```
1: daabualia@cis106: ~ $ pwd

/home/daabualia
daabualia@cis106: ~ $ cd /home/daabualia/Downloads/
daabualia@cis106: ~ /Downloads $ pwd

/home/daabualia/Downloads
daabualia@cis106: ~ /Downloads $ cd . . .
daabualia@cis106: ~ $ cd . . / . . /
daabualia@cis106: / $ pwd

/daabualia@cis106: / $ cd - //home/daabualia
daabualia@cis106: ~ $ _
```

practice 2

```
D†
                   다
                         ...bualia@cis106: ~/practicels
  1/1 ~ | + |
                                                     Q
                                                                     П
                                                                          ×
 1: daabualia@cis106: ~/practicels ~
                                                                   A] □
                                                                           ×
daabualia@cis106:~$ wget 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'
practicels.tar.xz
                   100%Γ=======>1 2.12M --.-KB/s
                                                                  in 0.08s
2023-10-27 18:16:16 (25.9 MB/s) - 'practicels.tar.xz' saved [2229212/2229212]
daabualia@cis106:~$ tar jxf practicels.tar.xz
bzip2: (stdin) is not a bzip2 file.
tar: Child returned status 2
tar: Error is not recoverable: exiting now
daabualia@cis106:~$ cd practicels/
bash: cd: practicels/: No such file or directory
daabualia@cis106:~$ tar Jxf practicels.tar.xz
daabualia@cis106:~$ cd practicels/
daabualia@cis106:~/practicels$ ls
book.txt
           history-debian.pdf/movie.mp4
                                                           tux-penguin.gif
countries.xml homework.docx
                                  people.csv tux-nobg.png
daabualia@cis106:~/practicels$ ls -a
         countries.xml
                            movie.mp4
                                        tux-nobg.png
         history-debian.pdf people.csv tux-penguin.gif
book.txt homework.docx
daabualia@cis106:~/practicels$ ls -l
total 2932
uddbudild@CISTVO:~/prdCtICeIS$ IS
total 2932
-rw-rw-r-- 1 daabualia daabualia
                                 1043 Feb 27 2022 book.txt
rw-rw-r-- 1 daabualia daabualia 23972 Feb 27 2022 countries.xml
rw-rw-r-- 1 daabualia daabualia 163057 Feb 27 2022 history-debian.pdf
rw-rw-r-- 1 daabualia daabualia 111303 Feb 22 2022 homework.docx
rw-rw-r-- 1 daabualia daabualia 1570024 Feb 27
                                               2022 movie.mp4
rw-rw-r-- 1 daabualia daabualia 284042 Feb 27
                                              2022 people.csv
rw-rw-r-- 1 daabualia daabualia 764176 Feb 27
                                               2022 song.mp3
rw-rw-r-- 1 daabualia daabualia 21314 Feb 27 2022 tux-nobg.png
rw-rw-r-- 1 daabualia daabualia 44299 Jan 31
                                               2020 tux-penguin.gif
daabualia@cis106:~/practicels$ ls -lh
total 2.9M
-rw-rw-r-- 1 daabualia daabualia 1.1K Feb 27
                                            2022 book.txt
rw-rw-r-- 1 daabualia daabualia 24K Feb 27
                                            2022 countries.xml
rw-rw-r-- 1 daabualia daabualia 160K Feb 27
                                            2022 history-debian.pdf
rw-rw-r-- 1 daabualia daabualia 109K Feb 22
                                            2022 homework.docx
rw-rw-r-- 1 daabualia daabualia 1.5M Feb 27
                                            2022 movie.mp4
rw-rw-r-- 1 daabualia daabualia 278K Feb 27
                                            2022 people.csv
rw-rw-r-- 1 daabualia daabualia 747K Feb 27
                                            2022 song.mp3
                                            2022 tux-nobg.png
-rw-rw-r-- 1 daabualia daabualia 21K Feb 27
-rw-rw-r-- 1 daabualia daabualia 44K Jan 31
                                            2020 tux-penguin.gif
daabualia@cis106:~/practicels$ ls -lht
total 2.9M
```

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

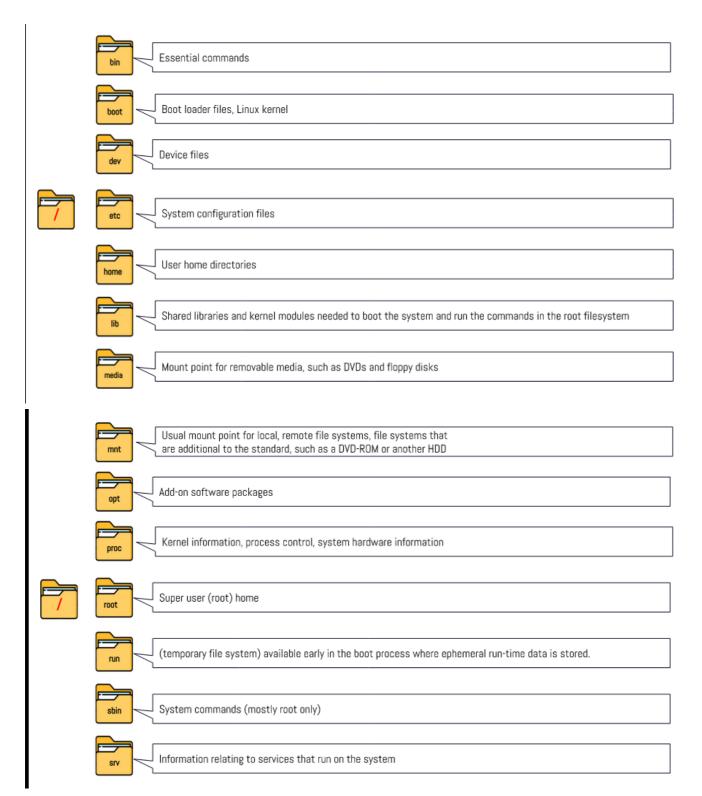
### practice 3

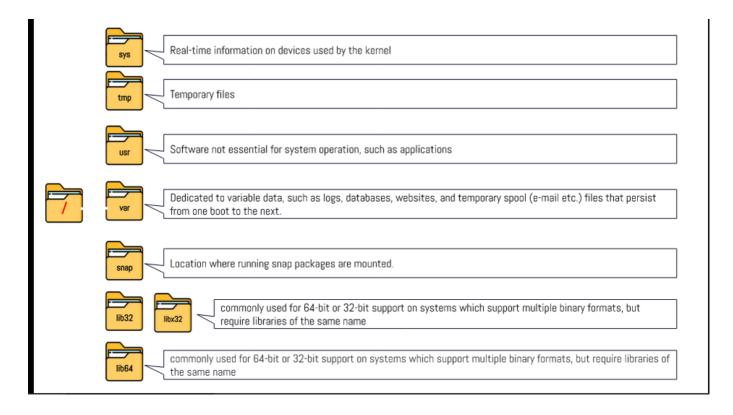
```
/home/daabualia
daabualia@cis106:~$ cd
daabualia@cis106:~$ cd /
daabualia@cis106:/$ cd usr/share/themes
daabualia@cis106:/usr/share/themes$ cd ../../
daabualia@cis106:/usr$ ls -A ~
2
                   myproject
 .bash_history
                   pictures
 .bash_logout
                   Pictures
 .bashrc
                    .pki
 .cache
                   plants
 cis106
                   'plants dr'
 .cis106.png
                   practicels
 .config
                   practicels.ta
                   practicles.
 Desktop
 Documents
                    .profile
 .dotnet
                   Public
 Downloads
                    snap
 file
                    .ssh
 file1
                    .sudo_as_admin_successful
 file2
                   sunflower.mp3
 file3
                   Templates
 filefolder
                    .thunderbird
 . fonts
                    .vboxclient-clipboard-tty2-control.pid
                    .vboxclient-clipboard-tty2-service.pid
 Games
                    .vboxclient-draganddrop-tty2-control.pid
 gitcommands.txt
```

```
practicles.
Desktop
Documents
                   .profile
 .dotnet
                   Public
Downloads
                   snap
file
                   .ssh
file1
                   .sudo_as_admin_successful
file2
                   sunflower.mp3
file3
                   Templates
filefolder
                   .thunderbird
 . fonts
                   .vboxclient-clipboard-tty2-control.pid
Games
                   .vboxclient-clipboard-tty2-service.pid
gitcommands.txt
                   .vboxclient-draganddrop-tty2-control.pid
                   .vboxclient-draganddrop-tty2-service.pid
 .gitconfig
 .gnupg
                   .vboxclient-hostversion-tty2-control.pid
hidden
                   .vboxclient-seamless-tty2-control.pid
hidden_file
                   .vboxclient-seamless-tty2-service.pid
lab2.md
                   .vboxclient-vmsvga-session-tty2-control.pid
 lab4files
                   .vboxclient-vmsvga-session-tty2-service.pid
 .lesshst
                   Videos
liana
                   .viminfo
 .local
                   .vscode
 .mozilla
                   websit
Music
                   website
daabualia@cis106:/usr$ cd; ls -tX cis106/
'cheat Sheets' labs weekReports
daabualia@cis106:~$ ls -rR ~/cis106
/home/daabualia/cis106:
```

```
daabualia@cis106:~$ Is -rR ~/cis106
/home/daabualia/cis106:
             labs 'cheat Sheets'
weekReports
/home/daabualia/cis106/weekReports:
wr4-p2.png wr4-p2.1.png wr4.md
                                    wr3.md
                                               fs.1.2.png
wr4-p2.2.png wr4-p1.png
                           wr3.pdf fs.1.3.png
                                               fs1.1.png
/home/daabualia/cis106/labs:
lab4 lab3 lab2 lab1
/home/daabualia/cis106/labs/lab4:
             lab4.5.1.png lab4.4.3.png
lab4.pdf
                                        lab4.2.4.png lab4.2.1.png
lab4.md
             lab4.4.5.png lab4.4.2.png lab4.2.3.png lab4.1.png
lab4.5.2.png lab4.4.4.png lab4.4.1.png
                                        lab4.2.2.png lab4.1.2.png
/home/daabualia/cis106/labs/lab3:
q2.1.png 'libre office writer.pdf'
                                          'libreoffice impress.odp'
                                                                     lab3.md
q1.1.png 'libre office presentaion.wmf' lab3.pdf
/home/daabualia/cis106/labs/lab2:
question4.png
              question3.png question1.2.png lab2.pdf
question4.1.png question2.png question1.1.png lab2.md
/home/daabualia/cis106/labs/lab1:
whatisubuntu.txt
                               what-is-ubuntu.pdf
                                                  johndoe_submission.pdf
                                                  johndoe_submission.md
what_is_ubuntu_submission.pdf
                              ubuntu-logo.png
LINUX HOLKSHOP ODUNICU SOLEWALE THISTATTACTON CHEAT SHEET.PING
daabualia@cis106:~$ ls -lh ~
total 4.4M
-rw-rw-r-- 1 daabualia daabualia 0 Oct 26 18:17 2
drwxrwxr-x 6 daabualia daabualia 4.0K Oct 10 20:18 cis106
drwxr-xr-x 2 daabualia daabualia 4.0K Oct 5 11:59
                                                  Desktop
drwxr-xr-x 2 daabualia daabualia 4.0K Oct 26 18:08
                                                  Documents
drwxr-xr-x 4 daabualia daabualia 4.0K Oct 26 18:03 Downloads
-rw-rw-r-- 1 daabualia daabualia 0 Oct 26 18:17
                                                  file
-rw-rw-r-- 1 daabualia daabualia
                                   0 Oct 26 18:45 file1
-rw-rw-r-- 1 daabualia daabualia 0 Oct 26 18:45 file2
                                                  file3
-rw-rw-r-- 1 daabualia daabualia
                                   0 Oct 26 18:45
drwxrwxr-x 2 daabualia daabualia 4.0K Oct 26 18:19
                                                  filefolder
drwxrwxr-x 3 daabualia daabualia 4.0K Oct 19 18:22 Games
-rw-rw-r-- 1 daabualia daabualia
                                  88 Sep 25 10:06
                                                  gitcommands.txt
drwxrwxr-x 2 daabualia daabualia 4.0K Sep 28 17:57
                                                  hidden
```

#### 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	changes the current working directory	cd	'cd'
ls	list all files inside a given directory	ls	'ls'

# Basic terminology

- File system The way files are stored and organized.
- Current directory The directory where are you at the moment.
- **parent directory** You are always working inside a particular directory and you can move forward to a subdirectory or backwards to the directory.
- the difference between YOUR HOME directory and THE HOME directory the HOME directory is the default directory for a user when they log in. It is also known as the user's home directory and is represented by ~. The HOME directory contains the user's personal files, settings, and configurations. YOUR HOME directory is a subdirectory within the HOME directory that is created for each user. It is represented by ~/ followed by the username. This subdirectory contains files and directories that are specific to that user.
- pathname Every file has a pathname which indicates the location of the file in the filesystem.
- **relative path** The location of a file starting from the current working directory that is located inside the current working directory.

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