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Week Report 4

Practice from the presentation The Linux File system:

Practice 1

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

Practice 2

```

daakwete@cis106:~$ tar Jxf practicels.tar.xz
daakwete@cis106:~$ cd practicels/
daakwete@cis106:~/practicels$ ls
book.txt          history-debian.pdf  movie.mp4          song.mp3          tux-penguin.gif
countries.xml     homework.docx       people.csv         tux-nobg.png
daakwete@cis106:~/practicels$ ls -a
.                  countries.xml       movie.mp4          tux-nobg.png
..                history-debian.pdf  people.csv         tux-penguin.gif
book.txt          homework.docx       song.mp3
daakwete@cis106:~/practicels$ ls -l
total 2932
-rw-rw-r-- 1 daakwete daakwete 1043 Feb 27 2022 book.txt
-rw-rw-r-- 1 daakwete daakwete 23972 Feb 27 2022 countries.xml
-rw-rw-r-- 1 daakwete daakwete 163057 Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 daakwete daakwete 111303 Feb 22 2022 homework.docx
-rw-rw-r-- 1 daakwete daakwete 1570024 Feb 27 2022 movie.mp4
-rw-rw-r-- 1 daakwete daakwete 284042 Feb 27 2022 people.csv
-rw-rw-r-- 1 daakwete daakwete 764176 Feb 27 2022 song.mp3
-rw-rw-r-- 1 daakwete daakwete 21314 Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 daakwete daakwete 44299 Jan 31 2020 tux-penguin.gif
daakwete@cis106:~/practicels$ ls -lh
total 2.9M
-rw-rw-r-- 1 daakwete daakwete 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 daakwete daakwete 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 daakwete daakwete 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 daakwete daakwete 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 daakwete daakwete 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 daakwete daakwete 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 daakwete daakwete 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 daakwete daakwete 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 daakwete daakwete 44K Jan 31 2020 tux-penguin.gif
daakwete@cis106:~/practicels$ ls -lht
total 2.9M
-rw-rw-r-- 1 daakwete daakwete 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 daakwete daakwete 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 daakwete daakwete 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 daakwete daakwete 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 daakwete daakwete 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 daakwete daakwete 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 daakwete daakwete 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 daakwete daakwete 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 daakwete daakwete 44K Jan 31 2020 tux-penguin.gif
daakwete@cis106:~/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
daakwete@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
daakwete@cis106:~/practicels$ ls -lX
people.csv
homework.docx

```

```

homework.docx
tux-penguin.gif
song.mp3
movie.mp4
history-debian.pdf
tux-nobg.png
book.txt
countries.xml
daakwete@cis106:~/practicels$

```

Challenge Question

```

daakwete@cis106:~/practicels$ pwd
/home/daakwete/practicels
daakwete@cis106:~/practicels$ cd -
/home/daakwete
daakwete@cis106:~$ cd /
daakwete@cis106:/$ cd usr/share/themes
daakwete@cis106:usr/share/themes$ cd ../../
daakwete@cis106:usr$ ls -A ~
.balsa      .cis106.png  Downloads    .lessht     .pki         .ssh         .vboxclient-draganddrop-tty2-service.pid  Videos
.bash_history  cis106.zip  .fonts       .local      practicels   .sudo_as_admin_successful  .vboxclient-hostversion-tty2-control.pid    .vscode
.bash_logout  .config     gitcommands.txt  mail        practicels.tar.xz  Templates        .vboxclient-seamless-tty2-control.pid
.bashrc       Desktop     .gitconfig     mailbox     .profile     .vboxclient-clipboard-tty2-control.pid    .vboxclient-seamless-tty2-service.pid
.cache        Documents   .gnupg         Music       .Public      .vboxclient-clipboard-tty2-service.pid    .vboxclient-vmvga-session-tty2-control.pid
cis106        .dotnet     lab4files     Pictures    snap         .vboxclient-draganddrop-tty2-control.pid  .vboxclient-vmvga-session-tty2-service.pid

daakwete@cis106:~$ cd; ls -lX cis106/
CheatSheets Labs weekReport
daakwete@cis106:~$ ls -lR ~/cis106/
/home/daakwete/cis106/:
weekReport Labs CheatSheets

/home/daakwete/cis106/weekReport:
wr4Practice2.2.png wr4Practice2.1.png wr4Practice1.png wr4.md wr3.pdf wr3.md

/home/daakwete/cis106/Labs:
Lab4 Lab3 Lab2 Lab1

/home/daakwete/cis106/Labs/Lab4:
test.md lab4.pdf lab4.md

/home/daakwete/cis106/Labs/Lab3:
q1.1.png presentation_lab3.odp lab3.pdf lab3.md doc_lab3.pdf.odt doc_lab3.pdf cis106lab3_q2.png

/home/daakwete/cis106/Labs/Lab2:
question4.png question3.png question1.2.png question1.1.png lab2.pdf lab2.md

/home/daakwete/cis106/Labs/Lab1:
whatisubuntu.txt what_is_ubuntu_submission.md what-is-ubuntu.pdf ubuntu-desktop.png resume.pdf resume.html johndoeinfo.txt
what_is_ubuntu_submission.pdf what_is_ubuntu_submission.html ubuntu-logo.png resume.png resume.md johndoe.jpeg

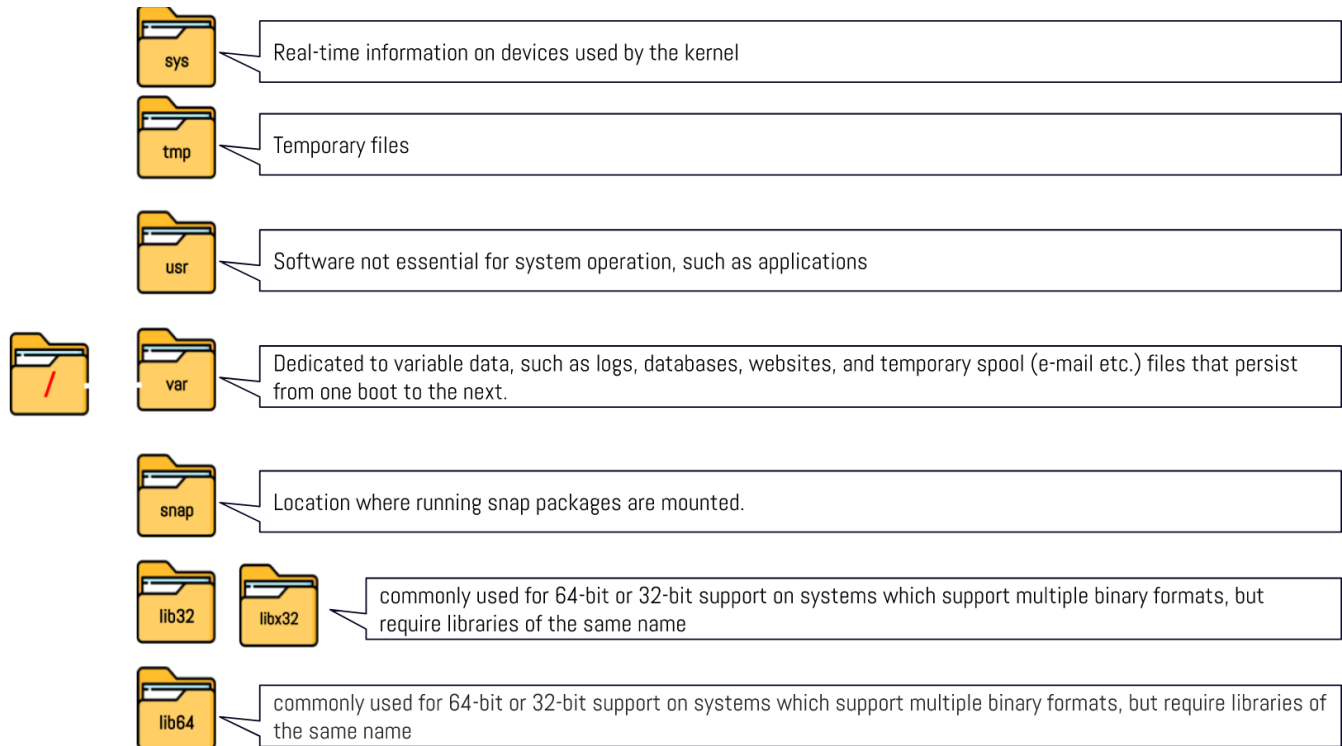
/home/daakwete/cis106/CheatSheets:
'Linux Workshop Ubuntu Software installation cheat sheet.png'
daakwete@cis106:~$ ls -lh ~
total 19M
drwxrwxr-x 6 daakwete daakwete 4.0K Oct 29 19:25 cis106
-rw-rw-r-- 1 daakwete daakwete 16M Oct 29 19:13 cis106.zip
drwxr-xr-x 2 daakwete daakwete 4.0K Oct 11 21:17 Desktop
drwxr-xr-x 2 daakwete daakwete 4.0K Sep 28 23:21 Documents
drwxr-xr-x 2 daakwete daakwete 4.0K Oct 26 22:15 Downloads
-rw-rw-r-- 1 daakwete daakwete 164 Oct 29 19:46 gitcommands.txt
drwxrwxr-x 2 daakwete daakwete 4.0K Feb 22 2022 lab4files
drwx----- 2 daakwete daakwete 4.0K Oct 12 01:49 mail
-rw----- 1 daakwete daakwete 0 Oct 12 01:49 mailbox
drwxr-xr-x 2 daakwete daakwete 4.0K Sep 28 23:21 Music
drwxr-xr-x 2 daakwete daakwete 4.0K Oct 11 21:01 Pictures
drwxrwxr-x 2 daakwete daakwete 4.0K Feb 27 2022 practicels
-rw-rw-r-- 1 daakwete daakwete 2.2M Oct 14 11:22 practicels.tar.xz
drwxr-xr-x 2 daakwete daakwete 4.0K Sep 28 23:21 Public
drwx----- 5 daakwete daakwete 4.0K Sep 29 00:06 snap
drwxr-xr-x 2 daakwete daakwete 4.0K Sep 28 23:21 Templates
drwxr-xr-x 2 daakwete daakwete 4.0K Sep 28 23:21 Videos

```

```
daakwetee@cis106:~$ ls -lgG -1 ~
total 18476
drwxrwxr-x 6      4096 Oct 29 19:25 cis106
-rw-rw-r-- 1 16629160 Oct 29 19:13 cis106.zip
drwxr-xr-x 2      4096 Oct 11 21:17 Desktop
drwxr-xr-x 2      4096 Sep 28 23:21 Documents
drwxr-xr-x 2      4096 Oct 26 22:15 Downloads
-rw-rw-r-- 1      164 Oct 29 19:46 gitcommands.txt
drwxrwxr-x 2      4096 Feb 22  2022 lab4files
drwx----- 2      4096 Oct 12 01:49 mail
-rw----- 1         0 Oct 12 01:49 mailbox
drwxr-xr-x 2      4096 Sep 28 23:21 Music
drwxr-xr-x 2      4096 Oct 11 21:01 Pictures
drwxrwxr-x 2      4096 Feb 27  2022 practicels
-rw-rw-r-- 1 2229212 Oct 14 11:22 practicels.tar.xz
drwxr-xr-x 2      4096 Sep 28 23:21 Public
drwx----- 5      4096 Sep 29 00:06 snap
drwxr-xr-x 2      4096 Sep 28 23:21 Templates
drwxr-xr-x 2      4096 Sep 28 23:21 Videos
daakwetee@cis106:~$
```

The Linux File system directories and their purpose:





All the commands for navigating the filesystem

Command	What it does	Syntax	Example
<code>pwd</code>	Prints current directory	<code>pwd</code>	<code>pwd</code>
<code>cd</code>	Changes your current directory	<code>cd + destination</code>	<code>cd Downloads</code>
<code>ls</code>	list all the files in the current directory	<code>ls + option + directory</code>	<code>ls -a</code>

Basic terminology

- **File system:** The way files are store and managed.
- **Current directory:** The directory you are presently at.
- **parent directory:** A particular directory that contains folders or subdirectories.
- **the difference between your home directory and the home directory:** Your home directory is associated with the users account, while the home directory is associated with the root user which is the administrator of your system.
- **pathname:** 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 at the root of the file system.