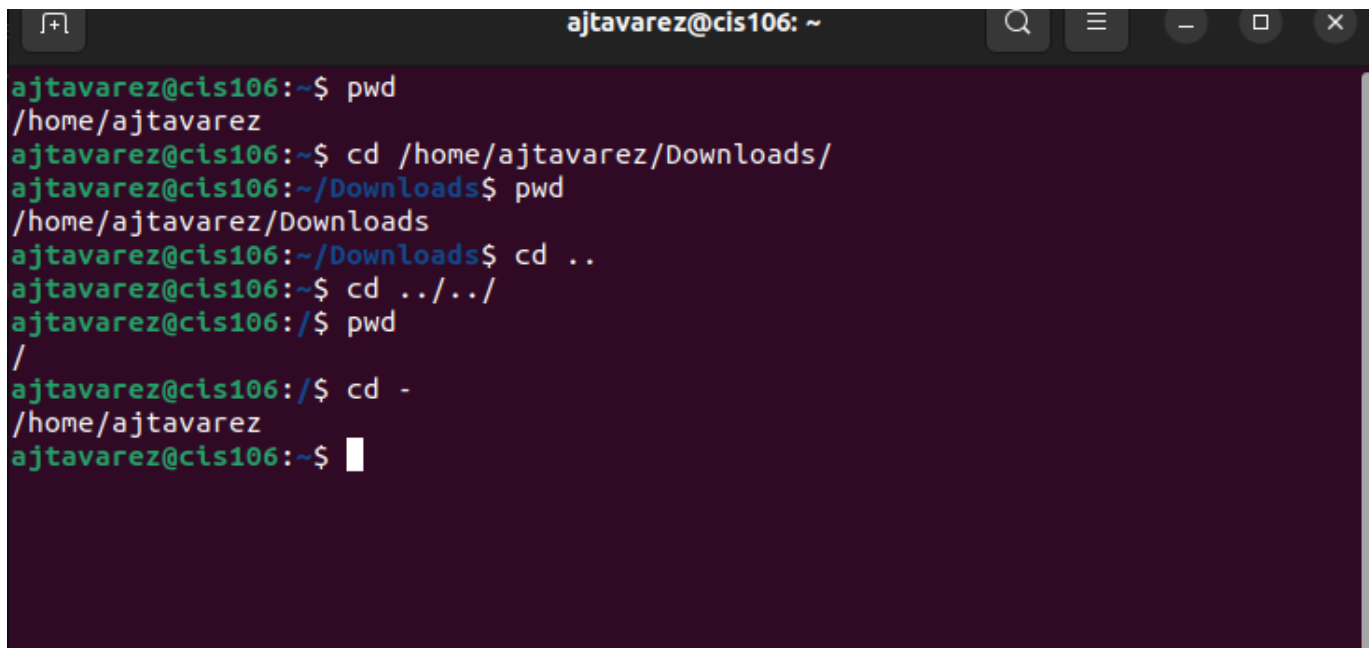


Week Report 4

Practice from the presentation The Linux File system:

Practice 1



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

Practice 2

```

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

```

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

Practice 3

```

1: ajtavarez@cis106: ~ ▾
ajtavarez@cis106:~/Downloads/practicels$ cd
ajtavarez@cis106:~$ pwd
/home/ajtavarez
ajtavarez@cis106:~$ cd ../
ajtavarez@cis106:/home$ cd /
ajtavarez@cis106:/$ cd usr/share/themes
ajtavarez@cis106:/usr/share/themes$ cd ../../
ajtavarez@cis106:/usr$ ls A~
ls: cannot access 'A~': No such file or directory
ajtavarez@cis106:/usr$ ls A ~
ls: cannot access 'A': No such file or directory
/home/ajtavarez:
1      lab4files
2      Music
3      myproject
cis106 orange
'cis 106 notes' Pictures
Desktop 'plants"EC'
Documents practicels.tar
dominos Public
Downloads snap
file1     sunflower.mp3
file2     Templates
file3     Videos
gitcommands.txt 'What is linux new presentation - Google Slides.pdf'
ajtavarez@cis106:/usr$ cd; ls -tX Aramys07/cis106
ls: cannot access 'Aramys07/cis106': No such file or directory
ajtavarez@cis106:~$ cd; ls -tX cis106/
cheatsheets labs weekreports
ajtavarez@cis106:~$ ls -rR ~/cis106/
/home/ajtavarez/cis106/:
weekreports labs cheatsheets

/home/ajtavarez/cis106/weekreports:
wr4-p2.png wr4-p2.1.png wr4-p1.png wr4.md wr3.pdf wr3.md fs1.2.png fs1.1.png

/home/ajtavarez/cis106/labs:
lab4 lab3 'lab 2' lab1

/home/ajtavarez/cis106/labs/lab4:
lab4.pdf lab4.5.1.png lab4.4.1-7.png lab4.2.3.png lab4.1.png
lab4.md lab4.4.9.png lab4.4.10.png lab4.2.2.png.png la4.1.2.png
lab4.5.2.png lab4.4.8.png lab4.4.10.1.png lab4.2.1.png

/home/ajtavarez/cis106/labs/lab3:
'Text from wikipidea.pdf' q1.1.png lab3.pdf
q2.1.png 'presentation for lab3.odp' lab3.md

'/home/ajtavarez/cis106/labs/lab 2':
question4.png question2.png question1.1.png lab2.md
question3.png question1.2.png lab2.pdf

/home/ajtavarez/cis106/labs/lab1:
whatisubuntu.txt what-is-ubuntu.pdf resume.pdf
what_is_ubuntu_submission.pdf ubuntu-logo.png resume.md
what_is_ubuntu_submission.md ubuntu-desktop.png johndoe.jpeg
what_is_ubuntu_submission.html resume.png johndoeinfo.txt

/home/ajtavarez/cis106/cheatsheets:
'Linux Workshop Ubuntu Software installation cheat sheet.png'
ajtavarez@cis106:~$ ls -lh ~
total 3.0M
-rw-rw-r-- 1 ajtavarez ajtavarez 0 Oct 26 18:17 1
-rw-rw-r-- 1 ajtavarez ajtavarez 0 Oct 26 18:18 2
-rw-rw-r-- 1 ajtavarez ajtavarez 0 Oct 26 18:18 3
drwxrwxr-x 6 ajtavarez ajtavarez 4.0K Oct 15 09:31 cis106
-rw-rw-r-- 1 ajtavarez ajtavarez 111 Oct 5 18:12 'cis 106 notes'
drwxr-xr-x 2 ajtavarez ajtavarez 4.0K Oct 15 09:30 Desktop
drwxr-xr-x 3 ajtavarez ajtavarez 4.0K Oct 26 18:32 Documents
drwxrwxr-x 7 ajtavarez ajtavarez 4.0K Oct 19 18:39 dominos
drwxr-xr-x 5 ajtavarez ajtavarez 4.0K Oct 29 12:10 Downloads

```

```

drwxr-xr-x 3 ajtavarez ajtavarez 1.0K Oct 29 12:10 Downloads
-rw-rw-r-- 1 ajtavarez ajtavarez 0 Oct 26 18:23 file1
-rw-rw-r-- 1 ajtavarez ajtavarez 0 Oct 26 18:23 file2
-rw-rw-r-- 1 ajtavarez ajtavarez 0 Oct 26 18:23 file3
-rw-rw-r-- 1 ajtavarez ajtavarez 87 Sep 30 14:46 gitcommands.txt
drwxrwxr-x 2 ajtavarez ajtavarez 4.0K Feb 22 2022 lab4files
drwxr-xr-x 2 ajtavarez ajtavarez 4.0K Oct 26 18:37 Music
drwxrwxr-x 2 ajtavarez ajtavarez 4.0K Oct 19 18:50 myproject
-rw-rw-r-- 1 ajtavarez ajtavarez 0 Oct 26 18:11 orange
drwxr-xr-x 3 ajtavarez ajtavarez 4.0K Oct 28 14:43 Pictures
drwxrwxr-x 2 ajtavarez ajtavarez 4.0K Oct 19 18:01 'plants"EC'
-rw-rw-r-- 1 ajtavarez ajtavarez 2.9M Oct 12 18:35 practicels.tar
drwxr-xr-x 2 ajtavarez ajtavarez 4.0K Sep 26 19:26 Public
drwx----- 5 ajtavarez ajtavarez 4.0K Sep 26 20:02 snap
-rw-rw-r-- 2 ajtavarez ajtavarez 0 Oct 26 18:36 sunflower.mp3
drwxr-xr-x 2 ajtavarez ajtavarez 4.0K Sep 26 19:26 Templates
drwxr-xr-x 2 ajtavarez ajtavarez 4.0K Oct 19 18:46 Videos
-rw-rw-r-- 1 ajtavarez ajtavarez 6.4K Oct 14 20:45 'What is linux new presentation - Google Slides.pdf'

```

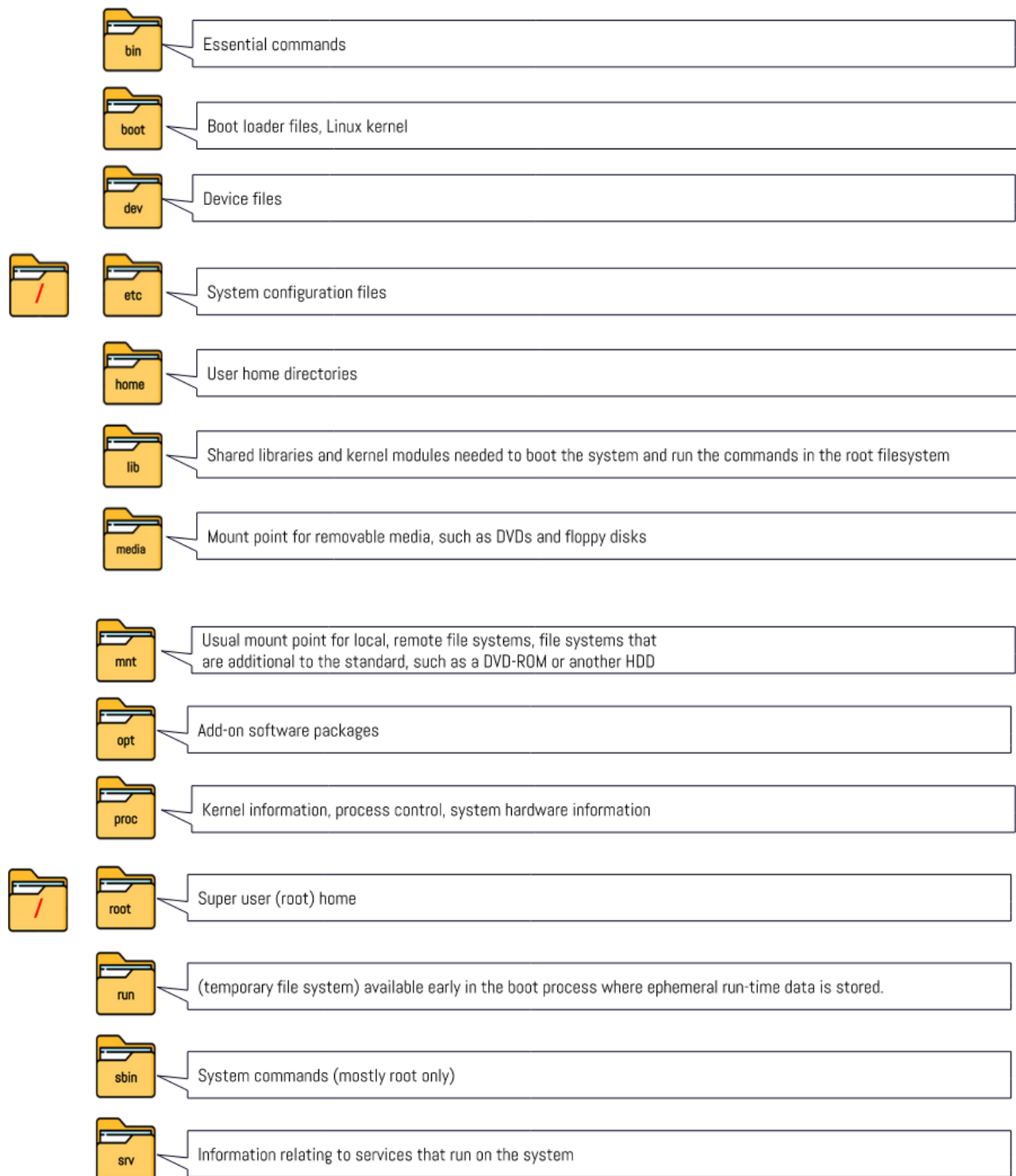
cis106/weekreports/wr4-p3.1.png

```

ajtavarez@cis106:~$ ls -lgG -full - time ~
ls: cannot access '-': No such file or directory
ls: cannot access 'time': No such file or directory
/home/ajtavarez:
total 3128
drwx----- 24 4096 Oct 14 20:23 .cache
drwx----- 27 4096 Oct 14 20:23 .config
-rw-rw-r-- 1 0 Oct 26 18:17 1
drwxrwxr-x 3 4096 Oct 14 14:12 .dotnet
drwxr-xr-x 2 4096 Oct 27 21:13 Music
-rw-r--r-- 1 220 Sep 26 19:19 .bash_logout
-rw-r--r-- 1 0 Sep 26 19:37 .sudo_as_admin_successful
-rw-r----- 1 5 Oct 28 10:04 .vboxclient-vmvga-session-tty2-service.pid
drwxr-xr-x 5 4096 Oct 29 12:10 Downloads
-rw-r--r-- 1 807 Oct 27 21:13 .profile
drwxrwxr-x 2 20480 Oct 14 14:57 .fonts
drwx----- 2 4096 Oct 14 14:12 .gnupg
-rw----- 1 4002 Oct 29 12:42 .bash_history
-rw-rw-r-- 1 6534 Oct 14 20:46 'What is linux new presentation - Google Slides.pdf'
drwxr-xr-x 2 4096 Oct 29 12:09 Templates
-rw-r----- 1 5 Sep 26 19:49 .vboxclient-vmvga-session-tty2-control.pid
drwx----- 2 4096 Oct 28 12:32 .ssh
drwxrwxr-x 6 4096 Oct 29 12:02 cis106
-rw----- 1 20 Oct 14 21:21 .lessht
drwxr-xr-x 3 4096 Oct 27 21:13 Documents
-rw-r----- 1 5 Sep 26 19:49 .vboxclient-hostversion-tty2-control.pid
-rw-rw-r-- 1 61 Oct 29 12:20 .gitconfig
-rw-rw-r-- 2 0 Oct 26 18:36 sunflower.mp3
-rw-r----- 1 5 Sep 26 19:49 .vboxclient-draganddrop-tty2-control.pid
-rw-r----- 1 5 Oct 28 10:04 .vboxclient-draganddrop-tty2-service.pid
drwxrwxr-x 2 4096 Oct 27 21:44 'plants"EC'
-rw-rw-r-- 1 0 Oct 26 18:30 file3
drwxrwxr-x 2 4096 Oct 27 21:48 lab4files
drwx----- 4 4096 Oct 14 14:12 .local
drwx----- 5 4096 Oct 28 10:50 snap
-rw-r----- 1 5 Sep 26 19:49 .vboxclient-clipboard-tty2-control.pid
drwxr-xr-x 3 4096 Oct 27 21:13 Pictures
drwxr-xr-x 2 4096 Oct 27 21:13 Desktop
-rw-r----- 1 5 Oct 28 10:04 .vboxclient-clipboard-tty2-service.pid
drwxr-xr-x 2 4096 Oct 27 21:13 Videos
-rw-r----- 1 5 Sep 26 19:49 .vboxclient-seamless-tty2-control.pid
-rw-rw-r-- 1 0 Oct 26 18:30 file1
-rw-r--r-- 1 3771 Oct 29 12:12 .bashrc
-rw-r----- 1 5 Oct 28 10:04 .vboxclient-seamless-tty2-service.pid
-rw-rw-r-- 1 0 Oct 26 18:18 3
-rw-rw-r-- 1 3000320 Oct 12 18:35 practicels.tar
drwxrwxr-x 4 4096 Oct 14 14:12 .vscode
drwxr-xr-x 2 4096 Oct 27 21:44 Public
-rw-rw-r-- 1 0 Oct 26 18:11 orange
-rw-rw-r-- 1 111 Oct 12 18:31 'cis 106 notes'
-rw-rw-r-- 1 3520 Oct 29 12:02 cis106.png
-rw-rw-r-- 1 0 Oct 26 18:18 2
drwx----- 3 4096 Oct 14 14:12 nki

```

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>	change the shell directory	<code>cd</code>	<code>cd</code>
<code>ls</code>	list files of directory	<code>ls</code>	<code>ls</code>

Basic terminology

- **File system:** The way files are stored and organized.
- **Current directory:** The directory where you are at the moment.
- **parent directory:** where you always working inside of it.
- **the difference between YOUR HOME directory and THE HOME directory:** Your home directory refers to the user's home directory. The home directory refers to the home directory located in the root.
- **pathname:** Indicates the location of the file in the filesystem.
- **relative path:** The location of a file starting from the current directory.
- **absolute path:** Th location of a file starting a the root of the file system.