Week Report 4

Practice

Practice 1


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

Practice 2


```
cpachtinger@cis106:~/Desktop/practicels$ ls -lht
otal 2.9M
rw-rw-r-- 1 jcpachtinger jcpachtinger  24K Feb 27  2022 countries.xml
rw-rw-r-- 1 jcpachtinger jcpachtinger 278K Feb 27  2022 people.csv
rw-rw-r-- 1 jcpachtinger jcpachtinger 747K Feb 27  2022 song.mp3
rw-rw-r-- 1 jcpachtinger jcpachtinger 1.5M Feb 27  2022 movie.mp4
rw-rw-r-- 1 jcpachtinger jcpachtinger 160K Feb 27  2022 history-debian.pdf
rw-rw-r-- 1 jcpachtinger jcpachtinger  21K Feb 27  2022 tux-nobg.png
rw-rw-r-- 1 jcpachtinger jcpachtinger 1.1K Feb 27  2022 book.txt
rw-rw-r-- 1 jcpachtinger jcpachtinger 109K Feb 22  2022 homework.docx
rw-rw-r-- 1 jcpachtinger jcpachtinger  44K Jan 31  2020 tux-penguin.gif
cpachtinger@cis106:~/Desktop/practicels$ ls -lhgGS
otal 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
cpachtinger@cis106:~/Desktop/practicels$ ls -mr
ux-penguin.gif, tux-nobg.png, song.mp3, people.csv, movie.mp4, homework.docx,
istory-debian.pdf, countries.xml, book.txt
cpachtinger@cis106:~/Desktop/practicels$ ls -1X
eople.csv
omework.docx
ux-penguin.gif
song.mp3
ovie.mp4
istory-debian.pdf
ook.txt
ountries.xml
cpachtinger@cis106:~/Desktop/practicels$ _
```

Challenge

```
jcpachtinger@cis106:/usr$ pwd
/usr
jcpachtinger@cis106:/usr$ cd
jcpachtinger@cis106:~$ cd /
jcpachtinger@cis106:/$ cd usr/share/themes/
jcpachtinger@cis106:/usr/share/themes$ cd ../../
jcpachtinger@cis106:/usr$ ls -A ~
.bash_history      Pictures
.bash_logout       pizza.pz
.bashrc            .pki
Bread              .profile
.cache             Public
cheesepizza.txt    snap
cis106             .ssh
.config            .sudo_as_admin_successful
Desktop            Templates
Documents          .vboxclient-clipboard-tty2-control.pid
.dotnet            .vboxclient-clipboard-tty2-service.pid
Downloads          .vboxclient-draganddrop-tty2-control.pid
.fonts             .vboxclient-draganddrop-tty2-service.pid
Games              .vboxclient-hostversion-tty2-control.pid
.gitconfig         .vboxclient-seamless-tty2-control.pid
.gnupg             .vboxclient-seamless-tty2-service.pid
.lesshst           .vboxclient-vmsvga-session-tty2-control.pid
.local             .vboxclient-vmsvga-session-tty2-service.pid
Music              Videos
oreo.png           .vscode
jcpachtinger@cis106:/usr$ cd; ls -tX cis106/
CheatSheets  Labs  WeekReports
jcpachtinger@cis106:~$ ls -rR ~/cis106/
/home/jcpachtinger/cis106/:
WeekReports  Labs  CheatSheets

/home/jcpachtinger/cis106/WeekReports:
WeekReport4  weekreport3
```
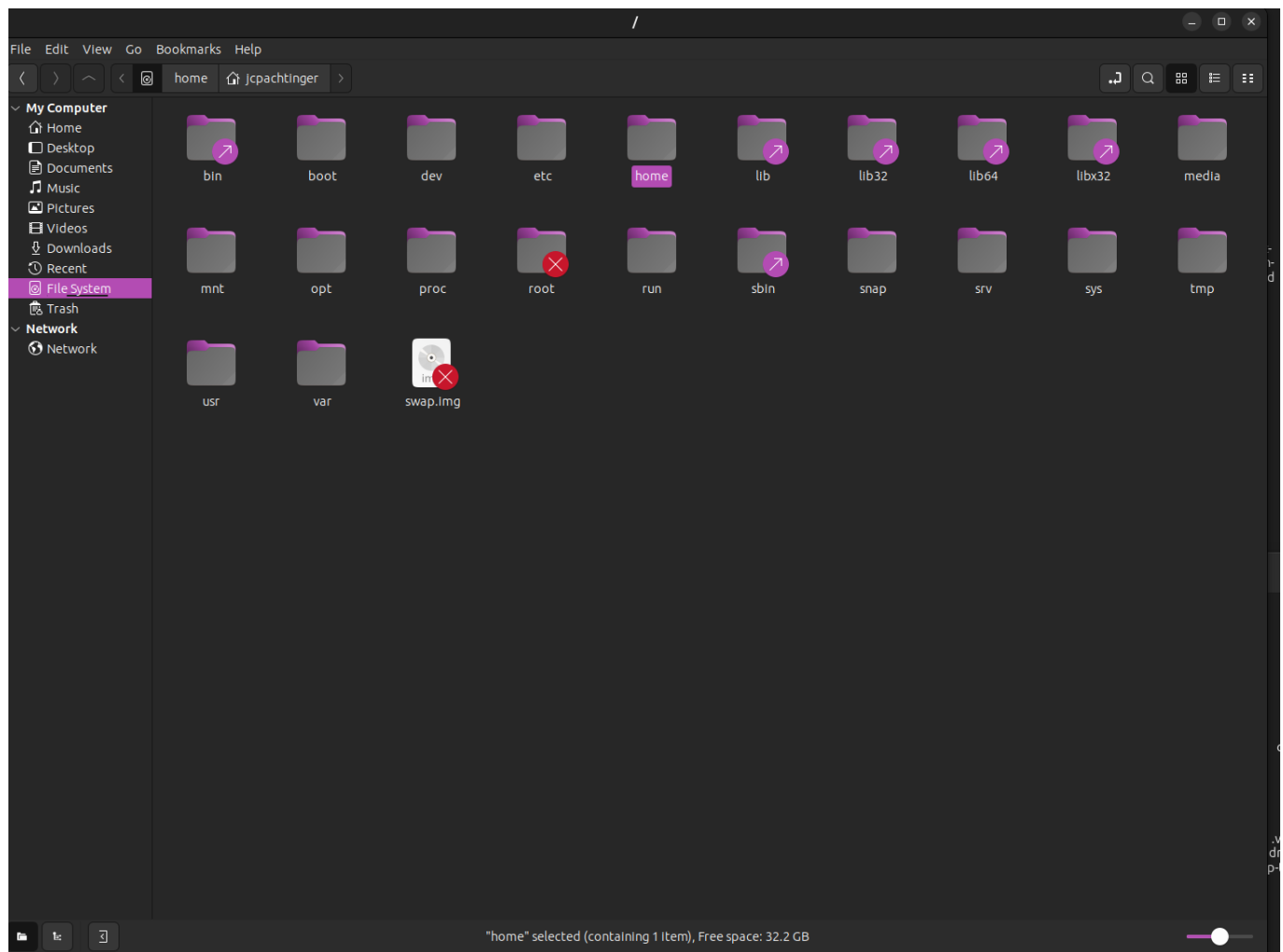
```
what_is_ubuntu_submission.html   resume_assignment.pdf
what-is-ubuntu.pdf               resume_assignment.md

/home/jcpachtinger/cis106/CheatSheets:
'Linux Workshop Ubuntu Software installation cheat sheet.png'
jcpachtinger@cis106:~$ ls -lh
total 44K
-rw-rw-r--  1 jcpachtinger jcpachtinger    0 Oct 25 17:59 Bread
-rw-rw-r--  1 jcpachtinger jcpachtinger    0 Oct 25 18:08 cheesepizza.txt
drwxrwxr-x  6 jcpachtinger jcpachtinger 4.0K Oct 26 16:26 cis106
drwxr-xr-x  3 jcpachtinger jcpachtinger 4.0K Oct 11 18:48 Desktop
drwxr-xr-x  3 jcpachtinger jcpachtinger 4.0K Oct 25 17:53 Documents
drwxr-xr-x 14 jcpachtinger jcpachtinger 4.0K Oct 26 16:27 Downloads
drwxrwxr-x  2 jcpachtinger jcpachtinger 4.0K Oct  1 17:39 Games
drwxr-xr-x  2 jcpachtinger jcpachtinger 4.0K Oct 25 18:05 Music
-rw-rw-r--  2 jcpachtinger jcpachtinger    0 Oct 25 18:27 oreo.png
drwxr-xr-x  3 jcpachtinger jcpachtinger 4.0K Oct 25 18:35 Pictures
-rw-rw-r--  1 jcpachtinger jcpachtinger    0 Oct 25 18:07 pizza.pz
drwxr-xr-x  2 jcpachtinger jcpachtinger 4.0K Sep 29 19:45 Public
drwx------  5 jcpachtinger jcpachtinger 4.0K Sep 29 20:22 snap
drwxr-xr-x  2 jcpachtinger jcpachtinger 4.0K Sep 29 19:45 Templates
drwxr-xr-x  2 jcpachtinger jcpachtinger 4.0K Oct 25 17:49 Videos
jcpachtinger@cis106:~$ ls -lgG -full-time ~
ls: invalid option -- '-'
Try 'ls --help' for more information.
jcpachtinger@cis106:~$ ls -lgG ~
total 44
-rw-rw-r--  1    0 Oct 25 17:59 Bread
-rw-rw-r--  1    0 Oct 25 18:08 cheesepizza.txt
drwxrwxr-x  6 4096 Oct 26 16:26 cis106
drwxr-xr-x  3 4096 Oct 11 18:48 Desktop
drwxr-xr-x  3 4096 Oct 25 17:53 Documents
drwxr-xr-x 14 4096 Oct 26 16:27 Downloads
drwxrwxr-x  2 4096 Oct  1 17:39 Games
drwxr-xr-x  2 4096 Oct 25 18:05 Music
```
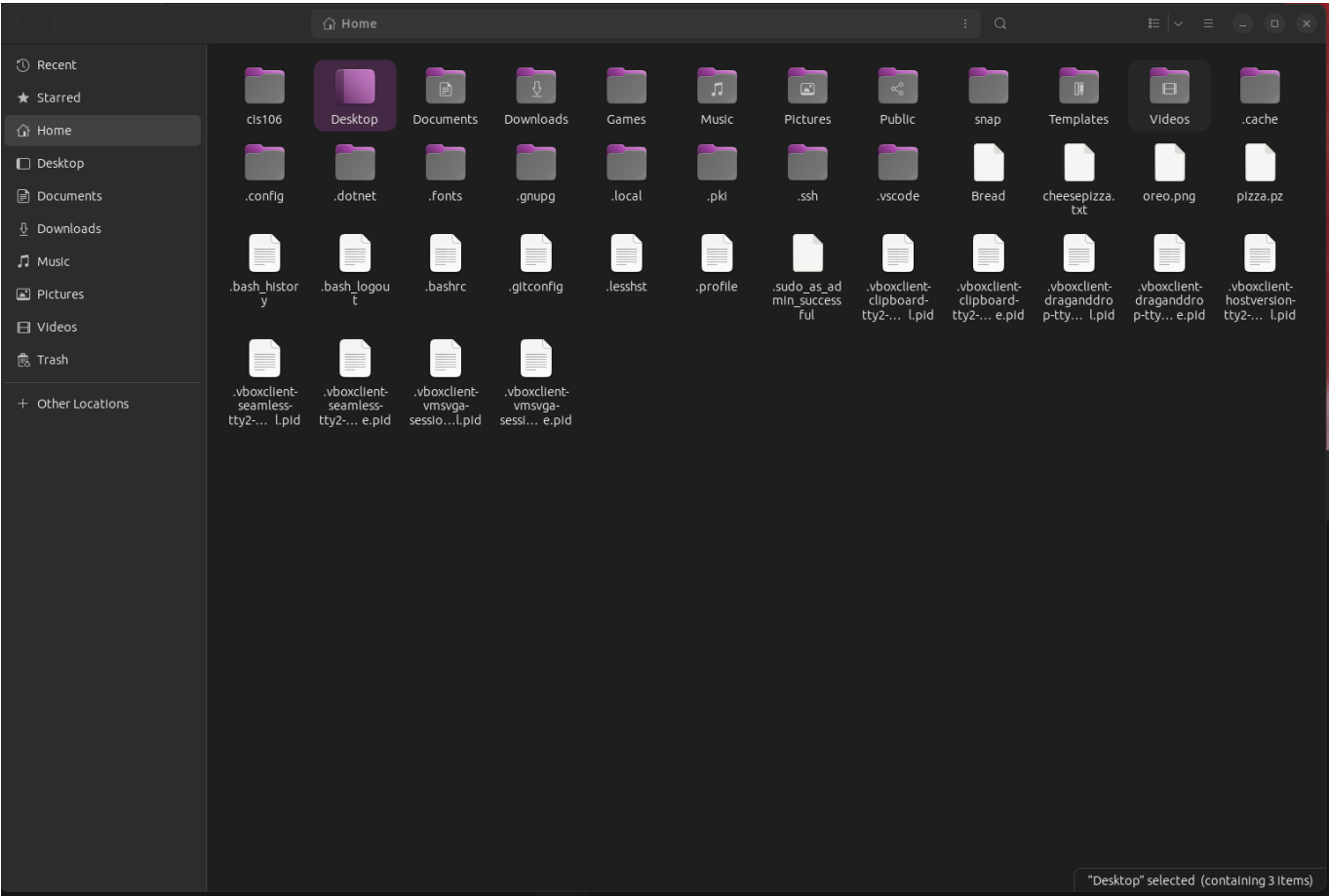
Linux file system directories

Root

The root directory is at the top of the tree. Only the administrator has access to the root. It contains important system files and it leads into the home directories for users and

Home

The home directory is where individual users have control. A user is free to access and change anything within their home directory

Commands

command	what it does	syntax	example
pwd	displays your current working directory	pwd	pwd
cd	changes your curren working directory	cd + destination	cd ~/Downloads/
ls	listing the contents of a directory	ls + option + directory to list	ls -l ~/downloads/

Basic terminology

File system - The way in which files are stored and organized **Current directory** - The folder that you are located in and have direct access to **Parent directory** - The directory that you your current directory is contained within **Your Home** - the directory that your username has access to **Home** - Directory that contains all user's home directories **Pathname**- like a set of directions that indicates where a file is located in the filesystem **Relative Path** - The way to a file starting from the current working directory **Absolute Path** - The complete location of a file starting at the root