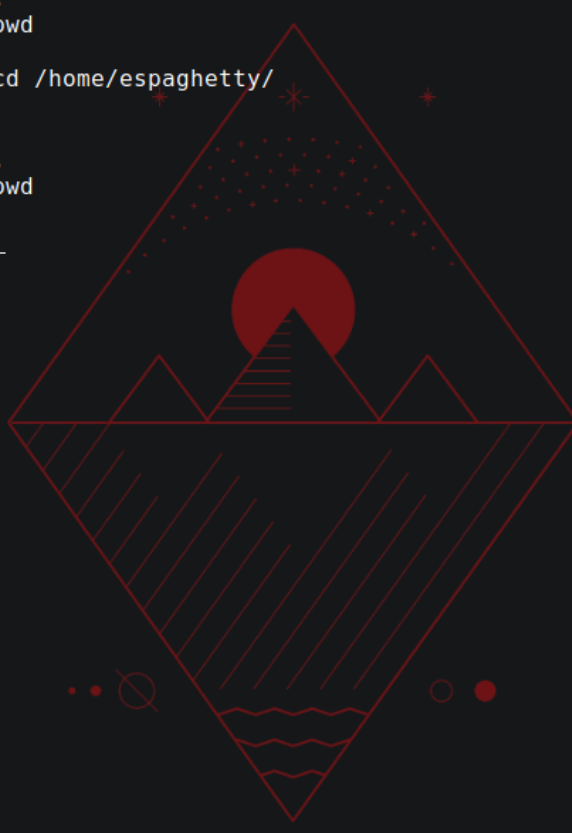


The Linux File System Solution

Section 1

```
1/1  +  [icon] [icon]  Tilix: espaghetty@Emperor: /home  [search] [menu] [back] [forward] [close]
1: espaghetty@Emperor: /home  [close]
espaghetty@Emperor:~$ pwd
/home/espaghetty
espaghetty@Emperor:~$ cd Downloads/
espaghetty@Emperor:~/Downloads$ echo 3. Absolute path
3. Absolute path
espaghetty@Emperor:~/Downloads$ cd ..
espaghetty@Emperor:~$ pwd
/home/espaghetty
espaghetty@Emperor:~$ cd ..
espaghetty@Emperor:/home$ pwd
/home
espaghetty@Emperor:/home$ cd /home/espaghetty/
espaghetty@Emperor:~/Downloads$ pwd
/home/espaghetty
espaghetty@Emperor:~$ cd ..
espaghetty@Emperor:/home$ pwd
/home
espaghetty@Emperor:/home$ _
```



Section 2


```
-rw-rw-r-- 1 espaghetty espaghetty 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 espaghetty espaghetty 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 espaghetty espaghetty 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 espaghetty espaghetty 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 espaghetty espaghetty 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 espaghetty espaghetty 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 espaghetty espaghetty 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 espaghetty espaghetty 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 espaghetty espaghetty 44K Jan 31 2020 tux-penguin.gif
espaghetty@Emperor:/practicels$ ls -mr
tux-penguin.gif, tux-nobg.png, song.mp3, people.csv, movie.mp4, homework.docx,
history-debian.pdf, countries.xml, book.txt
espaghetty@Emperor:/practicels$ ls -lx
book.txt countries.xml history-debian.pdf homework.docx movie.mp4 people.csv
song.mp3 tux-nobg.png tux-penguin.gif
espaghetty@Emperor:/practicels$ ls -lX
people.csv
homework.docx
tux-penguin.gif
song.mp3
movie.mp4
history-debian.pdf
tux-nobg.png
book.txt
countries.xml
espaghetty@Emperor:/practicels$ _
```

Challenge Question

```

1/1  +  Tili: espaghetty@Emperor: /usr
1: espaghetty@Emperor: /usr  AI  x

espaghetty@Emperor:/practicels$ cd ~/
espaghetty@Emperor:~$ cd /
espaghetty@Emperor:/$ cd /usr/share/themes/
espaghetty@Emperor:/usr/share/themes$ cd ../../
espaghetty@Emperor:/usr$ ls ~/ -a
.          .gitconfig  .thunderbird
..         .gnupg      .vboxclient-clipboard-tty2-control.pid
.bash_history  lab4files  .vboxclient-clipboard-tty2-service.pid
.bash_logout  .lessshst .vboxclient-draganddrop-tty2-control.pid
.bashrc       .local     .vboxclient-draganddrop-tty2-service.pid
.cache        .mozilla   .vboxclient-hostversion-tty2-control.pid
cis106        Music      .vboxclient-seamless-tty2-control.pid
.config       Pictures   .vboxclient-seamless-tty2-service.pid
Desktop       .pki       .vboxclient-vmvga-session-tty2-control.pid
Documents     .profile   .vboxclient-vmvga-session-tty2-service.pid
.dotnet       Public     Videos
Downloads     snap      .vscode
Espaghetty    .ssh
.fonts        Templates

espaghetty@Emperor:/usr$ ls ~/Espaghetty/ -a
.  .

espaghetty@Emperor:/usr$ ls ~/cis106/ -tX
Labs  weekReports  ubuntu-desktop.png
espaghetty@Emperor:/usr$ ls ~/cis106/ -rR
/home/espaghetty/cis106/:
weekReports  ubuntu-desktop.png  Labs

/home/espaghetty/cis106/weekReports:
weekReport4

/home/espaghetty/cis106/weekReports/weekReport4:
wr4.md  ScreenShot

/home/espaghetty/cis106/weekReports/weekReport4/ScreenShot:
'Practice 2B.png' 'Practice 2A.png' 'Practice 1.png'

/home/espaghetty/cis106/Labs:
Lab4.md 'Lab 4' 'Lab 3' 'Lab 2' 'Lab 1'

'/home/espaghetty/cis106/Labs/Lab 4':
Screenshot Lab4.pdf Lab4.md

'/home/espaghetty/cis106/Labs/Lab 4/Screenshot':
PracticeCommand.png  lsCommandAnswer.png 'Challenge 1'
PracticeCommand2.png 'Challenge 2'

'/home/espaghetty/cis106/Labs/Lab 4/Screenshot/Challenge 2':
ChallengeQuestionPart2B.png ChallengeQuestion2.png

'/home/espaghetty/cis106/Labs/Lab 4/Screenshot/Challenge 1':
ChallengeQuestionPart1-3.png.png ChallengeQuestionPart1-2.png ChallegeQuestionPart1.png

'/home/espaghetty/cis106/Labs/Lab 3':
Screenshots Presentation Lab3.pdf Lab3.md

'/home/espaghetty/cis106/Labs/Lab 3/Screenshots':
Video.png  Music.png  Internet.png  Desktop.png
Tetris.png Libre_Office_Wiki.pdf Email.png  Date.png

'/home/espaghetty/cis106/Labs/Lab 3/Presentation':
Presentation.odp

'/home/espaghetty/cis106/Labs/Lab 2':
Question3.png Question1.png lab2.md  Bonus3.png Bonus1.png
Question2.png lab2_tmp.html Bonus4.png Bonus2.png 2023-09-27_08-23.png

'/home/espaghetty/cis106/Labs/Lab 1':
whatisubuntu.txt  what-is-ubuntu.pdf  JohnDoe_Resume.md
What_is_ubuntu_submission.pdf  ubuntu-logo.png  JohnDoe_Resume.html
What is ubuntu submission.md  resume.png  johndoe.jpeg

```

```
'What_is_ubuntu_submission copy.html' JohnDoe_Resume.pdf johndoeinfo.txt
espaghetty@Emperior:/usr$ ls ../home/espaghetty/cis106/ -rR
../home/espaghetty/cis106/:
weekReports  ubuntu-desktop.png  Labs

../home/espaghetty/cis106/weekReports:
weekReport4

../home/espaghetty/cis106/weekReports/weekReport4:
wr4.md  ScreenShot

../home/espaghetty/cis106/weekReports/weekReport4/ScreenShot:
'Practice 2B.png' 'Practice 2A.png' 'Practice 1.png'

../home/espaghetty/cis106/Labs:
Lab4.md 'Lab 4' 'Lab 3' 'Lab 2' 'Lab 1'

'../home/espaghetty/cis106/Labs/Lab 4':
Screenshot Lab4.pdf Lab4.md

'../home/espaghetty/cis106/Labs/Lab 4/Screenshot':
PracticeCommand.png  lsCommandAnswer.png 'Challenge 1'
PracticeCommand2.png 'Challenge 2'

'../home/espaghetty/cis106/Labs/Lab 4/Screenshot/Challenge 2':
```



```

1: espaghetty@Emperior: /usr
rectis.png Libre_office_wiki.pdf Email.png Date.png

'../home/espaghetty/cis106/Labs/Lab 3/Presentation':
Presentation.odp

'../home/espaghetty/cis106/Labs/Lab 2':
Question3.png Question1.png lab2.md Bonus3.png Bonus1.png
Question2.png lab2_tmp.html Bonus4.png Bonus2.png 2023-09-27_08-23.png

'../home/espaghetty/cis106/Labs/Lab 1':
whatisubuntu.txt what-is-ubuntu.pdf JohnDoe_Resume.md
What_is_ubuntu_submission.pdf ubuntu-logo.png JohnDoe_Resume.html
What_is_ubuntu_submission.md resume.png johndoe.jpeg
'What_is_ubuntu_submission copy.html' JohnDoe_Resume.pdf johndoeinfo.txt

espaghetty@Emperior: /usr$ ls ~/Espaghetty/ -lh
total 0
espaghetty@Emperior: /usr$
espaghetty@Emperior: /usr$ ls ~/ -lh
total 48K
drwxrwxr-x 5 espaghetty espaghetty 4.0K Oct 25 18:16 cis106
drwxr-xr-x 2 espaghetty espaghetty 4.0K Oct 24 00:55 Desktop
drwxr-xr-x 2 espaghetty espaghetty 4.0K Oct 18 21:33 Documents
drwxr-xr-x 2 espaghetty espaghetty 4.0K Oct 25 18:39 Downloads
drwxrwxr-x 2 espaghetty espaghetty 4.0K Oct 24 00:45 Espaghetty
drwxrwxr-x 2 espaghetty espaghetty 4.0K Feb 22 2022 lab4files
drwxr-xr-x 2 espaghetty espaghetty 4.0K Oct 18 21:33 Music
drwxr-xr-x 3 espaghetty espaghetty 4.0K Oct 24 01:08 Pictures
drwxr-xr-x 2 espaghetty espaghetty 4.0K Oct 18 21:33 Public
drwx----- 5 espaghetty espaghetty 4.0K Oct 18 22:08 snap
drwxr-xr-x 2 espaghetty espaghetty 4.0K Oct 18 21:33 Templates
drwxr-xr-x 2 espaghetty espaghetty 4.0K Oct 18 21:33 Videos
espaghetty@Emperior: /usr$ ls ~/ -lGg -full-time
ls: invalid option -- '-'
Try 'ls --help' for more information.
espaghetty@Emperior: /usr$ ls ~/ -lGg --full-time
total 48
drwxrwxr-x 5 4096 2023-10-25 18:16:11.388596804 -0400 cis106
drwxr-xr-x 2 4096 2023-10-24 00:55:06.957417388 -0400 Desktop
drwxr-xr-x 2 4096 2023-10-18 21:33:49.331624057 -0400 Documents
drwxr-xr-x 2 4096 2023-10-25 18:39:03.631808366 -0400 Downloads
drwxrwxr-x 2 4096 2023-10-24 00:45:05.505234396 -0400 Espaghetty
drwxrwxr-x 2 4096 2022-02-22 14:18:06.000000000 -0500 lab4files
drwxr-xr-x 2 4096 2023-10-18 21:33:49.331624057 -0400 Music
drwxr-xr-x 3 4096 2023-10-24 01:08:12.005231077 -0400 Pictures
drwxr-xr-x 2 4096 2023-10-18 21:33:49.331624057 -0400 Public
drwx----- 5 4096 2023-10-18 22:08:33.429971709 -0400 snap
drwxr-xr-x 2 4096 2023-10-18 21:33:49.331624057 -0400 Templates
drwxr-xr-x 2 4096 2023-10-18 21:33:49.331624057 -0400 Videos
espaghetty@Emperior: /usr$

```

Week report part 2

Command	What it does	Syntax	Example
ls	list directory contents	ls + option + file	ls -l Documents
cd	Change directory	cd + directory name	cd /home/
pwd	print name of current/working directory	pwd + option	pwd -l

Basic Terminology

- File System - Where your data is held and organized by your liking.
- Current directory - The directory you are currently in; changes can be made to the directory

- Parent directory - Parent directory is the main files name. (i.e home is the parent file to our user file)
- Your home - Our home is referring to your user's home directory.
- The home - refers to the home directory
- pathname - The folders / direction taken to end up at the selected file
- relative path - Does not start with /. Relative file starts with a subdirectory (the file before the wanted directory)
- absolute path - Starts with a /. The entire path of the wanted file is used /displayed.

Bryant F. Polanco