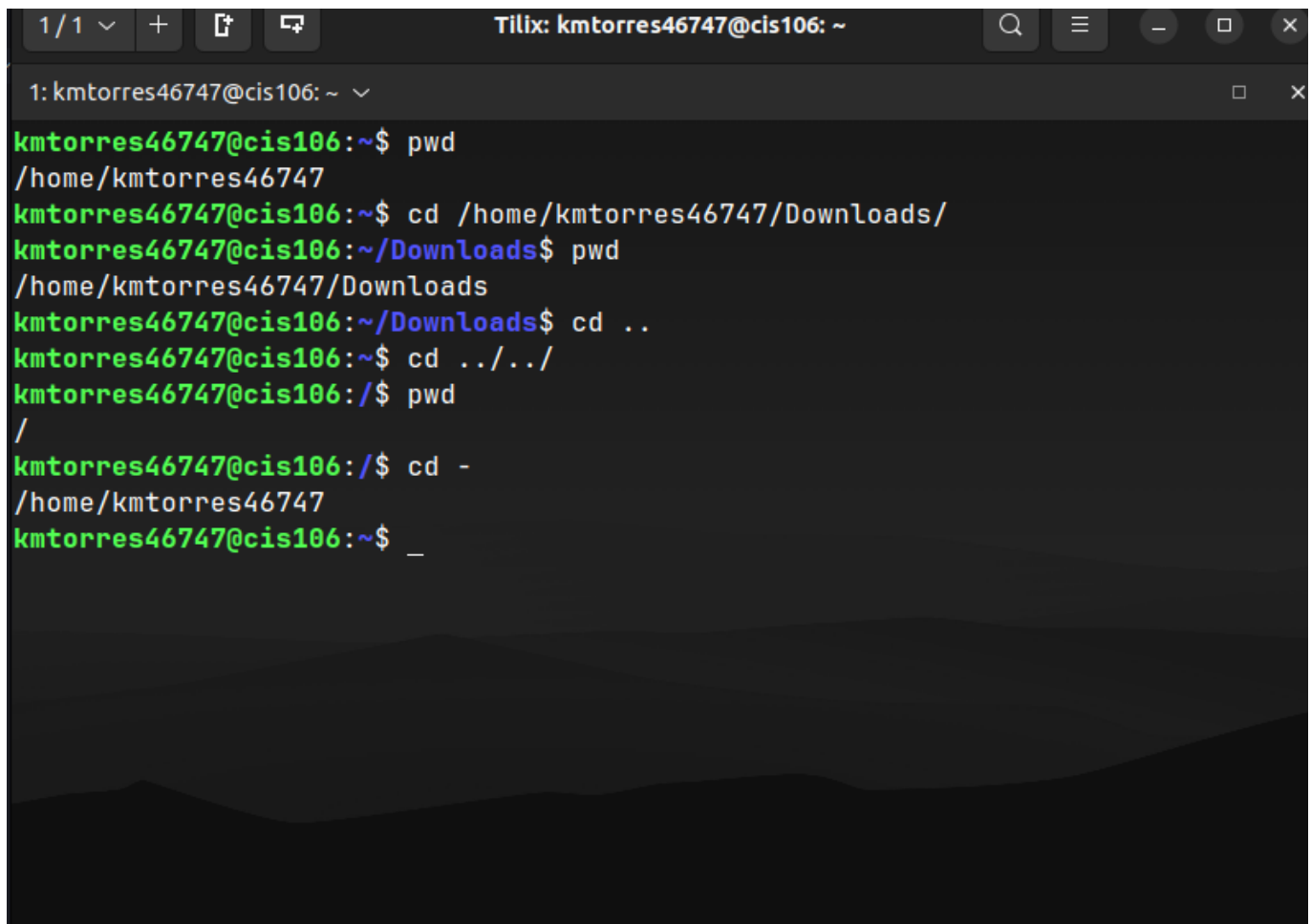


Week Report 4

Practice from the presentation The Linux File system:

Practice 1

A screenshot of a terminal window titled "Tilix: kmtorres46747@cis106: ~". The terminal shows a series of commands and their outputs for navigating the file system. The user starts in the home directory, moves to the Downloads directory, and then navigates up and down the directory tree using relative paths. The prompt changes from ~ to ~/Downloads and back to ~ as the user moves between directories. The terminal text is as follows:

```
1/1 v + [ ] [ ] Tilix: kmtorres46747@cis106: ~
1: kmtorres46747@cis106: ~ v
kmtorres46747@cis106:~$ pwd
/home/kmtorres46747
kmtorres46747@cis106:~$ cd /home/kmtorres46747/Downloads/
kmtorres46747@cis106:~/Downloads$ pwd
/home/kmtorres46747/Downloads
kmtorres46747@cis106:~/Downloads$ cd ..
kmtorres46747@cis106:~$ cd ../../
kmtorres46747@cis106:/$ pwd
/
kmtorres46747@cis106:/$ cd -
/home/kmtorres46747
kmtorres46747@cis106:~$ _
```

Practice 2

```

1: kmtorres46747@cis106: ~/Desktop/practicels
kmtorres46747@cis106:~$ cd /home/kmtorres46747/Desktop/practicels/
kmtorres46747@cis106:~/Desktop/practicels$ ls
book.txt      history-debian.pdf  movie.mp4    song.mp3     tux-penguin.gif
countries.xml homework.docx       people.csv   tux-nobg.png
kmtorres46747@cis106:~/Desktop/practicels$ ls -a
.      countries.xml      movie.mp4    tux-nobg.png
..     history-debian.pdf people.csv    tux-penguin.gif
book.txt homework.docx      song.mp3
kmtorres46747@cis106:~/Desktop/practicels$ ls -l
total 2932
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 1043 Feb 27 2022 book.txt
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 23972 Feb 27 2022 countries.xml
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 163057 Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 111303 Feb 22 2022 homework.docx
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 1570024 Feb 27 2022 movie.mp4
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 284042 Feb 27 2022 people.csv
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 764176 Feb 27 2022 song.mp3
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 21314 Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 44299 Jan 31 2020 tux-penguin.gif
kmtorres46747@cis106:~/Desktop/practicels$ ls -lh
total 2.9M
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 44K Jan 31 2020 tux-penguin.gif
kmtorres46747@cis106:~/Desktop/practicels$ ls -lhc
total 2.9M
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 1.1K Mar 17 22:00 book.txt
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 24K Mar 17 22:00 countries.xml
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 160K Mar 17 22:00 history-debian.pdf
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 109K Mar 17 22:00 homework.docx
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 1.5M Mar 17 22:00 movie.mp4
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 278K Mar 17 22:00 people.csv
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 747K Mar 17 22:00 song.mp3
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 21K Mar 17 22:00 tux-nobg.png
-rw-rw-r-- 1 kmtorres46747 kmtorres46747 44K Mar 17 22:00 tux-penguin.gif
kmtorres46747@cis106:~/Desktop/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
kmtorres46747@cis106:~/Desktop/practicels$ ls -mr
tux-penguin.gif, tux-nobg.png, song.mp3, people.csv, movie.mp4, homework.docx,
history-debian.pdf, countries.xml, book.txt
kmtorres46747@cis106:~/Desktop/practicels$ ls -C1X
people.csv
homework.docx
tux-penguin.gif
song.mp3

```

```
movie.mp4  
history-debian.pdf  
tux-nobg.png  
book.txt  
countries.xml  
kmtorres46747@cis106:~/Desktop/practicels$
```

Practice 3

```

1: kmtorres46747@cis106: ~
kmtorres46747@cis106:~/Desktop/practicels$ pwd
/home/kmtorres46747/Desktop/practicels
kmtorres46747@cis106:~/Desktop/practicels$ cd
kmtorres46747@cis106:~$ cd /
kmtorres46747@cis106:/$ cd usr/share/themes/
kmtorres46747@cis106:~/usr/share/themes$ cd ../../
kmtorres46747@cis106:~/usr$ ls -A /home/
kmtorres46747
kmtorres46747@cis106:~/usr$ cd
kmtorres46747@cis106:~$ ls -tX cis106/
cheatSheets  labs  weekReports
kmtorres46747@cis106:~$ ls -rR cis106/
cis106/:
weekReports  labs  cheatSheets

cis106/weekReports:
wr4-p2.2.png  wr4-p2.1.png  wr4-p1.png  wr4.md  wr3.pdf  wr3.md  fs1.3.png  fs1.2.png  fs1.1.png

cis106/labs:
'lab 4'  'lab 3'  lab2  lab1

'cis106/labs/lab 4':
lab4.pdf  lab4.md  lab4.5.2.png  lab4.5.1.png  lab4.4.3.png  lab4.4.2.png  lab4.4.1.png  lab4.2.2.png  lab4.2.1.png  lab4.1.png  lab4.1.2.png

'cis106/labs/lab 3':
q2.1.png  q1.pdf  q1.odp  q1.1.png  lab3.pdf  lab3.md

cis106/labs/lab2:
lab2-shot5.JPG  lab2-shot4.JPG  lab2-shot3.JPG  lab2-shot2.JPG  lab2-shot1.JPG  lab2.pdf  lab2.md

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

cis106/cheatSheets:
'The LS command Cheat Sheet.png'  'Linux Workshop Ubuntu Software installation cheat sheet.png'  gitcommands.txt  'Absolute Path VS Relative Path Cheat sheet.png'

```

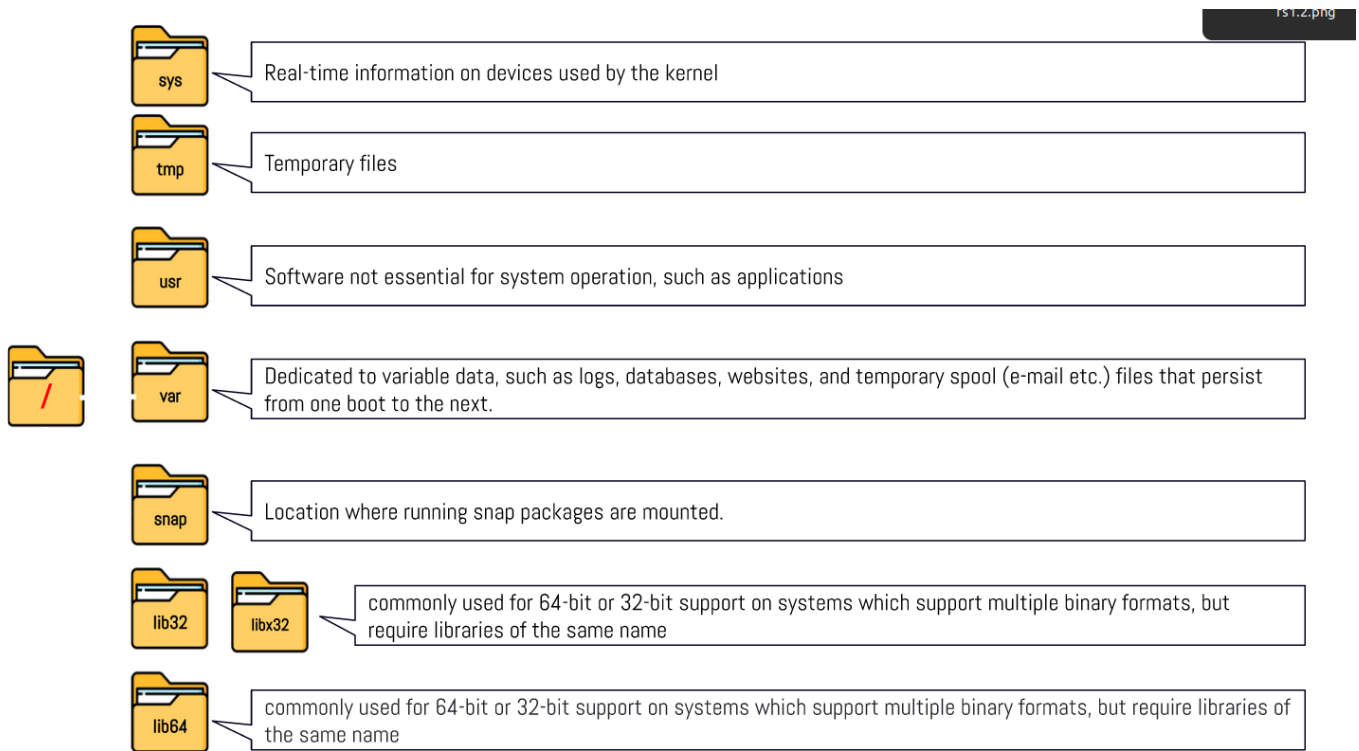
```

1: kmtorres46747@cis106: ~
kmtorres46747@cis106:~$ ls -lh
total 48K
drwxrwxr-x 6 kmtorres46747 kmtorres46747 4.0K Mar  4 20:23 cis106
drwxr-xr-x 3 kmtorres46747 kmtorres46747 4.0K Mar 17 22:00 Desktop
drwxr-xr-x 2 kmtorres46747 kmtorres46747 4.0K Mar 14 18:10 Documents
drwxr-xr-x 2 kmtorres46747 kmtorres46747 4.0K Mar 17 22:00 Downloads
-rw-rw-r-- 1 kmtorres46747 kmtorres46747  91 Feb 12 20:38 gitcommands.txt
drwxrwxr-x 2 kmtorres46747 kmtorres46747 4.0K Feb 22  2022 lab4files
drwxr-xr-x 2 kmtorres46747 kmtorres46747 4.0K Feb  6 23:56 Music
drwxr-xr-x 6 kmtorres46747 kmtorres46747 4.0K Mar 17 20:57 Pictures
drwxr-xr-x 2 kmtorres46747 kmtorres46747 4.0K Feb  6 23:56 Public
drwx----- 5 kmtorres46747 kmtorres46747 4.0K Feb 12 19:59 snap
drwxr-xr-x 2 kmtorres46747 kmtorres46747 4.0K Feb  6 23:56 Templates
drwxr-xr-x 2 kmtorres46747 kmtorres46747 4.0K Mar 14 18:29 Videos
kmtorres46747@cis106:~$ ls -lgG --full-time ~
total 48
drwxrwxr-x 6 4096 2023-03-04 20:23:24.968793155 -0500 cis106
drwxr-xr-x 3 4096 2023-03-17 22:00:56.406053463 -0400 Desktop
drwxr-xr-x 2 4096 2023-03-14 18:10:26.372557861 -0400 Documents
drwxr-xr-x 2 4096 2023-03-17 22:00:08.890055676 -0400 Downloads
-rw-rw-r-- 1  91 2023-02-12 20:38:03.315430196 -0500 gitcommands.txt
drwxrwxr-x 2 4096 2022-02-22 14:18:06.000000000 -0500 lab4files
drwxr-xr-x 2 4096 2023-02-06 23:56:00.491998836 -0500 Music
drwxr-xr-x 6 4096 2023-03-17 20:57:24.438230946 -0400 Pictures
drwxr-xr-x 2 4096 2023-02-06 23:56:00.491998836 -0500 Public
drwx----- 5 4096 2023-02-12 19:59:52.694799286 -0500 snap
drwxr-xr-x 2 4096 2023-02-06 23:56:00.491998836 -0500 Templates
drwxr-xr-x 2 4096 2023-03-14 18:29:43.988296861 -0400 Videos
kmtorres46747@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 directory	<code>cd + destination</code>	<code>cd Downloads</code>
<code>ls</code>	Lists files of a directory	<code>ls + option + directory to list</code>	<code>ls -a</code>

Basic terminology

- **File system:** The way files are stored and organized.
- **Current directory:** The directory where you are at the moment.
- **parent directory:** Directory containing the current directory.
- **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:** Location of a file starting from the current working directory or a directory that is located inside the current working directory.
- **absolute path:** Location of a file starting from the root of the file system.