

Week Report 4

Practice

Practice 1



```
gpacheco@cis106vm: ~  
gpacheco@cis106vm:/$ pwd  
/  
gpacheco@cis106vm:/$ cd /home/gpacheco/Downloads/  
gpacheco@cis106vm:~/Downloads$ pwd  
/home/gpacheco/Downloads  
gpacheco@cis106vm:~/Downloads$ cd ..  
gpacheco@cis106vm:~$ cd ../../  
gpacheco@cis106vm:/$ pwd  
/  
gpacheco@cis106vm:/$ cd -  
/home/gpacheco  
gpacheco@cis106vm:~$
```

Practice 2

```

gpacheco@cis106vm: ~/practicels
gpacheco@cis106vm:~$ wget https://cis106.com/assets/practicels.tar.xz
--2023-03-12 17:28:41-- https://cis106.com/assets/practicels.tar.xz
Resolving cis106.com (cis106.com)... 185.199.108.153
Connecting to cis106.com (cis106.com)|185.199.108.153|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2229212 (2.1M) [application/x-xz]
Saving to: 'practicels.tar.xz'

practicels.tar.xz  100%[=====] 2.12M  7.18MB/s  in 0.3s

2023-03-12 17:28:41 (7.18 MB/s) - 'practicels.tar.xz' saved [2229212/2229212]

gpacheco@cis106vm:~$ tar Jxf practicels.tar.xz
gpacheco@cis106vm:~$ cd practicels/
gpacheco@cis106vm:~/practicels$ ls
book.txt      history-debian.pdf  movie.mp4      song.mp3      tux-penguin.gif
countries.xml  homework.docx      people.csv     tux-nobg.png
gpacheco@cis106vm:~/practicels$ ls -a
.      countries.xml      movie.mp4      tux-nobg.png
..     history-debian.pdf people.csv     tux-penguin.gif
book.txt homework.docx      song.mp3
gpacheco@cis106vm:~/practicels$ ls -l
total 2932
-rw-rw-r-- 1 gpacheco gpacheco 1043 Feb 27 2022 book.txt
-rw-rw-r-- 1 gpacheco gpacheco 23972 Feb 27 2022 countries.xml
-rw-rw-r-- 1 gpacheco gpacheco 163057 Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 gpacheco gpacheco 111303 Feb 22 2022 homework.docx
-rw-rw-r-- 1 gpacheco gpacheco 1570024 Feb 27 2022 movie.mp4
-rw-rw-r-- 1 gpacheco gpacheco 284042 Feb 27 2022 people.csv
-rw-rw-r-- 1 gpacheco gpacheco 764176 Feb 27 2022 song.mp3
-rw-rw-r-- 1 gpacheco gpacheco 21314 Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 gpacheco gpacheco 44299 Jan 31 2020 tux-penguin.gif
gpacheco@cis106vm:~/practicels$ ls -lh
total 2.9M
-rw-rw-r-- 1 gpacheco gpacheco 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 gpacheco gpacheco 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 gpacheco gpacheco 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 gpacheco gpacheco 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 gpacheco gpacheco 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 gpacheco gpacheco 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 gpacheco gpacheco 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 gpacheco gpacheco 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 gpacheco gpacheco 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 gpacheco gpacheco 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 gpacheco gpacheco 44K Jan 31 2020 tux-penguin.gif
gpacheco@cis106vm:~/practicels$ ls -lht
total 2.9M
-rw-rw-r-- 1 gpacheco gpacheco 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 gpacheco gpacheco 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 gpacheco gpacheco 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 gpacheco gpacheco 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 gpacheco gpacheco 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 gpacheco gpacheco 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 gpacheco gpacheco 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 gpacheco gpacheco 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 gpacheco gpacheco 44K Jan 31 2020 tux-penguin.gif
gpacheco@cis106vm:~/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
gpacheco@cis106vm:~/practicels$ ls -mr
tux-penguin.gif, tux-nobg.png, song.mp3, people.csv, movie.mp4, homework.docx,
history-debian.pdf, countries.xml, book.txt
gpacheco@cis106vm:~/practicels$ ls -lX
people.csv
homework.docx
tux-penguin.gif
song.mp3
movie.mp4
history-debian.pdf
tux-nobg.png
book.txt
countries.xml
gpacheco@cis106vm:~/practicels$
```

Practice 3

```

gpacheco@cis106vm: ~
gpacheco@cis106vm:/usr$ pwd
/usr
gpacheco@cis106vm:/usr$ cd
gpacheco@cis106vm:~$ cd /
gpacheco@cis106vm:/usr/share/themes$ cd ../../
gpacheco@cis106vm:/usr$ ls -A ~
.bash_history  .font  snap
.bash_logout  .gitconfig  .ssh
.bashrc  .gnupg  .sudo_as_admin_successful
.cache  lab4files  Templates
cis106  .local  .vboxclient-clipboard.pid
.cis106.png  Music  .vboxclient-draganddrop.pid
.config  Pictures  .vboxclient-seamless.pid
.covers  .pki  .vboxclient-vmvga-session-tty2.pid
Desktop  practicels  Videos
Documents  practicels.tar.xz  .vscode
.dotnet  .profile
Downloads  Public

gpacheco@cis106vm:/usr$ cd; ls -tX ~/cis106/
cheatSheets  Labs  UBUNTU_LOGO.jpg
'Final Project cis-106'  weekReports  Virtualbox_logo_.png
gpacheco@cis106vm:~$ ls -rR ~/cis106/
/home/gpacheco/cis106/:
weekReports  UBUNTU_LOGO.jpg  'Final Project cis-106'
Virtualbox_logo_.png  Labs  cheatSheets

/home/gpacheco/cis106/weekReports:
'Week report 4'  weekReport3.md

'/home/gpacheco/cis106/weekReports/Week report 4':
Weekreport4.md  Practice2.2.png  Practice1.png  fs1.2.png
Practice2.3.png  Practice2.1.png  fs1.3.png  fs1.1.png

/home/gpacheco/cis106/weekReports/weekReport3.md:
wr3.pdf  wr3.md

/home/gpacheco/cis106/Labs:
'Lab 4'  'Lab 3'  'Lab 2'  Lab1

'/home/gpacheco/cis106/Labs/Lab 4':
question5.1.png  question4.5.png  question2.3.png  'Lab 4.pdf'
question5.0.png  question4.4.png  question2.2.png  'Lab 4.md'
question4.8.png  question4.3.png  question2.1.png
question4.7.png  question4.2.png  'question 1.2.png'
question4.6.png  question4.1.png  'question 1.1.png'

'/home/gpacheco/cis106/Labs/Lab 3':
VirtualMachinePresentation.odp  Question2.1.png  Question1.1.png  Lab3.md
VirtualMachine.pdf  Question1.2TS.png  Lab3.pdf

'/home/gpacheco/cis106/Labs/Lab 2':
'Screenshot Q.4 2023-02-05 003236.png'  Q2.Picture3.png  lab2.pdf
Q5.png  Q1.Picture1.png  lab2.md
'Q 3.png'  Q1.1Picture2.png

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

```

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what_is_ubuntu_submission.md      resume.png      johndoeinfo.txt
what_is_ubuntu_submission.html    johndoeresume.pdf
what-is-ubuntu.pdf                johndoeresume.md

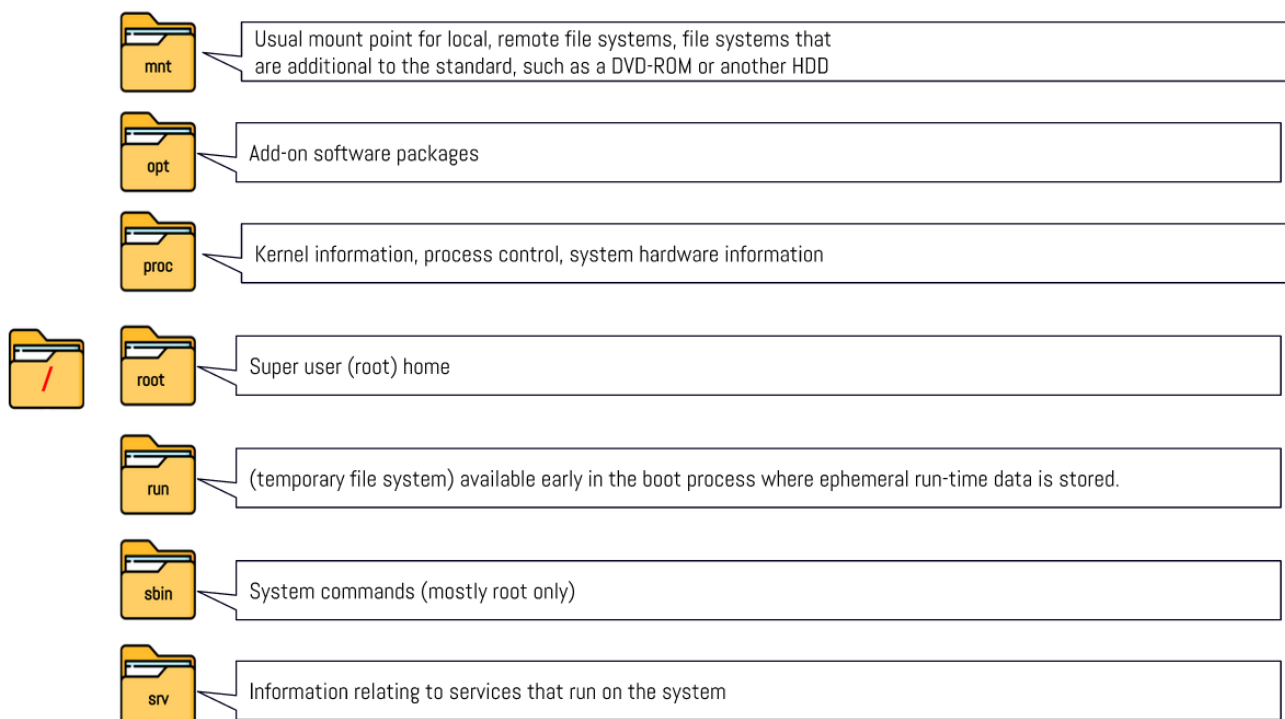
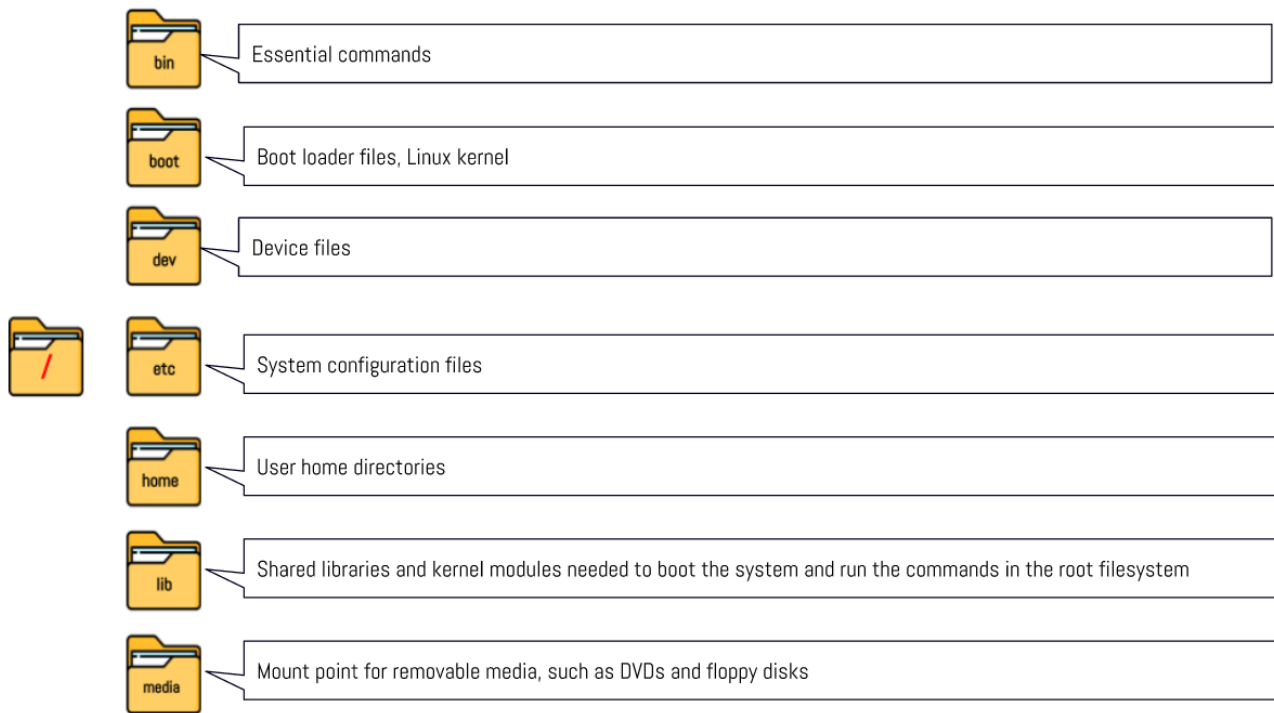
'/home/gpacheco/cis106/Final Project cis-106':
  NGINX.png      'Deliverable 1.pdf'      CADDY_LOGO.jpeg
  network-firewall-iLOGO.jpg  'Deliverable 1.md'      Apache_HTTP_LOGO.png

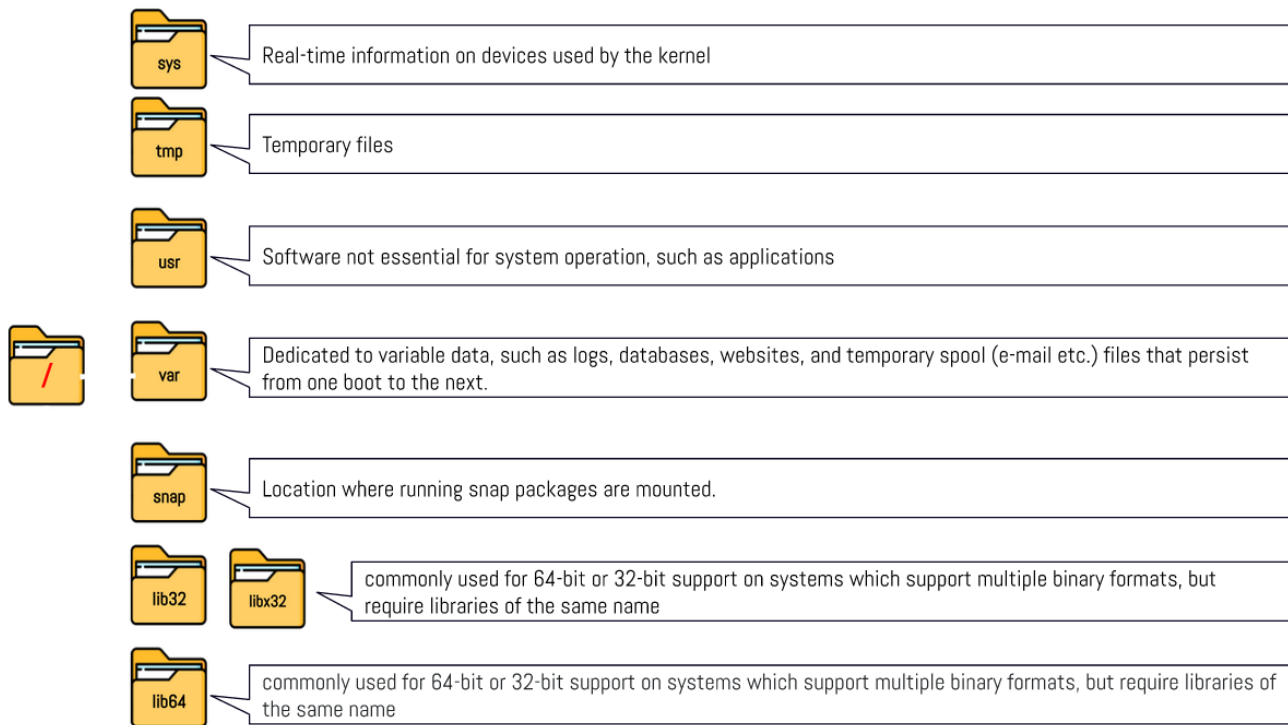
/home/gpacheco/cis106/cheatSheets:
'Linux Workshop Ubuntu Software installation cheat sheet(1).png'
gpacheco@cis106vm:~$ ls -lh ~
total 2.2M
drwxrwxr-x 7 gpacheco gpacheco 4.0K Mar 11 16:52 cis106
drwxr-xr-x 3 gpacheco gpacheco 4.0K Mar 12 17:24 Desktop
drwxr-xr-x 2 gpacheco gpacheco 4.0K Feb  2 23:06 Documents
drwxr-xr-x 4 gpacheco gpacheco 4.0K Mar 12 17:24 Downloads
drwxrwxr-x 2 gpacheco gpacheco 4.0K Mar  6 22:15 lab4files
drwxr-xr-x 2 gpacheco gpacheco 4.0K Feb  2 23:06 Music
drwxr-xr-x 5 gpacheco gpacheco 4.0K Mar  7 18:45 Pictures

drwxrwxr-x 2 gpacheco gpacheco 4.0K Feb 27 2022 practicels
-rw-rw-r-- 1 gpacheco gpacheco 2.2M Feb 21 21:10 practicels.tar.xz
drwxr-xr-x 2 gpacheco gpacheco 4.0K Feb  2 23:06 Public
drwx----- 5 gpacheco gpacheco 4.0K Feb  5 00:39 snap
drwxr-xr-x 2 gpacheco gpacheco 4.0K Feb  2 23:06 Templates
drwxr-xr-x 5 gpacheco gpacheco 4.0K Mar  7 18:56 Videos
gpacheco@cis106vm:~$ ls -lgG --full-time ~
total 2228
drwxrwxr-x 7      4096 2023-03-11 16:52:53.074723119 -0500 cis106
drwxr-xr-x 3      4096 2023-03-12 17:24:49.922726316 -0400 Desktop
drwxr-xr-x 2      4096 2023-02-02 23:06:47.651280400 -0500 Documents
drwxr-xr-x 4      4096 2023-03-12 17:24:57.114320648 -0400 Downloads
drwxrwxr-x 2      4096 2023-03-06 22:15:56.461028186 -0500 lab4files
drwxr-xr-x 2      4096 2023-02-02 23:06:47.651280400 -0500 Music
drwxr-xr-x 5      4096 2023-03-07 18:45:11.100212448 -0500 Pictures
drwxrwxr-x 2      4096 2022-02-27 13:46:18.000000000 -0500 practicels
-rw-rw-r-- 1 2229212 2023-02-21 21:10:00.000000000 -0500 practicels.tar.xz
drwxr-xr-x 2      4096 2023-02-02 23:06:47.651280400 -0500 Public
drwx----- 5      4096 2023-02-05 00:39:09.370274349 -0500 snap
drwxr-xr-x 2      4096 2023-02-02 23:06:47.651280400 -0500 Templates
drwxr-xr-x 5      4096 2023-03-07 18:56:45.059050772 -0500 Videos
gpacheco@cis106vm:~$

```

The Linux file directory and their purpose





All Commands for navigating the file system

Command	What it does	Syntax	Example
<code>pwd</code>	Prints the current working directory	<code>pwd</code>	<code>pwd</code>
<code>cd</code>	It changes the current working directory	<code>cd + destination</code>	<code>cd</code> <code>/Downloads</code>
<code>ls</code>	Its function is to list the content of a given directory or the file/directory itself.	<code>ls + option + directory to list</code>	<code>ls -l</code> <code>/Pictures</code>

Basic Terminology

- **File system** In a computer, a file system -- sometimes written filesystem -- is the way in which files are named and where they are placed logically for storage and retrieval. Without a file system, stored information wouldn't be isolated into individual files and would be difficult to identify and retrieve.
- **Current directory** Alternatively called working directory or current working directory (CWD), the current directory is the directory or folder where you are currently working. The following sections contain some common use examples involving the current working directory.
- **Parent directory** A parent directory is a directory containing the current directory. For example, in the MS-DOS path below, the "Windows" directory is the parent directory of the "System32" directory, and C:\ is the root directory.
- **The difference between your home directory and the home directory** My home directory means a storage folder that contains the user's personal files, also can be the default working directory when a user logs in. While the home directory is the root directory file.

- **Pathname** The set of names required to specify a particular file in a hierarchy of directories is called the path to the file, which you specify as a path name. Path names are used as arguments for commands.
- **Relative path** A relative path is used to locate a directory from the current working directory.
- **Absolute path** An absolute path is a sequence that begins with a slash for the root, followed by one or more directory names separated with slashes, and ends with a directory name or a file name. The search for the file begins at the root and continues through the elements in the path name until it gets to the final name.