Week Report 4

Practice from the presentation the linux file system

Pratice 1

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

Practice 2

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

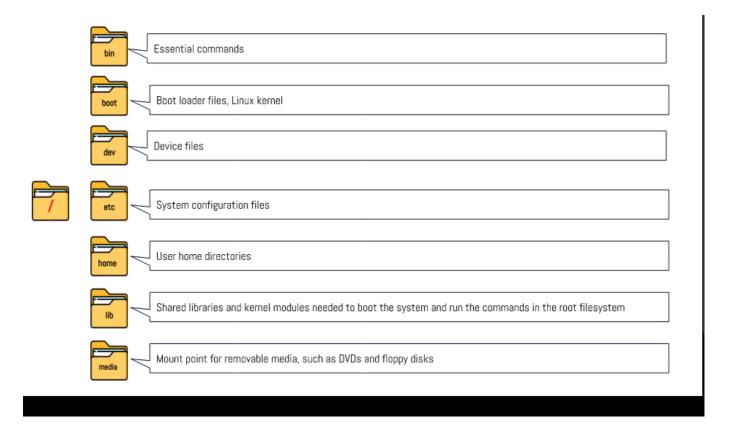
```
rw-rw-r-- 1 24K reb 2/ 2022 countries.xmt
rw-rw-r-- 1 21K Feb 27 2022 tux-nobg.png
rw-rw-r-- 1 1.1K Feb 27
                     2022 book.txt
sgunthrope@cis106vm:~/Desktop/practicels$ ls -nr
otal 2932
rw-rw-r-- 1 1000 1000 44299 Jan 31
                                 2020 tux-penguin.gif
rw-rw-r-- 1 1000 1000
                    21314 Feb 27 2022 tux-nobg.png
rw-rw-r-- 1 1000 1000 764176 Feb 27 2022 song.mp3
rw-rw-r-- 1 1000 1000  284042 Feb 27  2022 people.csv
rw-rw-r-- 1 1000 1000 1570024 Feb 27 2022 movie.mp4
rw-rw-r-- 1 1000 1000 111303 Feb 22 2022 homework.docx
rw-rw-r-- 1 1000 1000 23972 Feb 27 2022 countries.xml
rw-rw-r-- 1 1000 1000 1043 Feb 27 2022 book.txt
sgunthrope@cis106vm:~/Desktop/practicels$
```

Practice 3

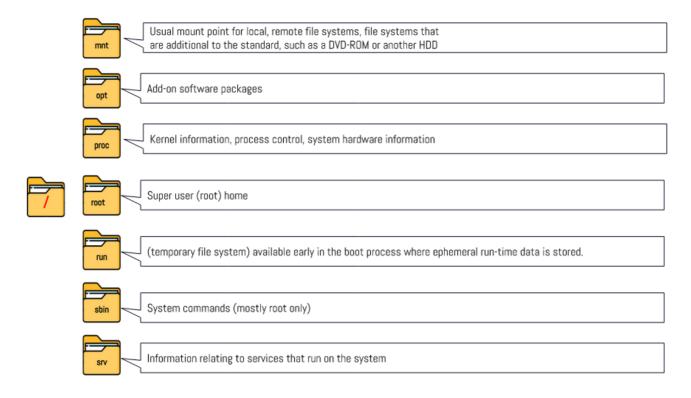
```
ssgunthrope@cis106vm:~$ pwd
home/ssgunthrope
ssgunthrope@cis106vm:~$ cd
ssgunthrope@cis106vm:~$ cd /
ssgunthrope@cis106vm:/$ cd usr/share/themes/
ssgunthrope@cis106vm:/usr/share/themes$ cd ...
ssgunthrope@cis106vm:/usr/share$ cd ..
ssgunthrope@cis106vm:/usr$ ls /home/
sgunthrope
ssgunthrope@cis106vm:/usr$ ls /home/ssgunthrope/
oike
                              ipv4
                                                  Pictures
                                                                Templates
                              lab4files
chips
                                                                Texture_Plants
          Downloads
                                                  Public
                                                                Videos
                              myproject
controller games
                                                                website
cookie.txt githubcommands.txt no_more_heroesssgunthrope@cis106vm:/usr$ ls -ltX /home/ssgun
thrope/cis106/
total 12
rwxrwxr-x 2 ssgunthrope ssgunthrope 4096 Oct 12 12:13 cheatsheets
drwxrwxr-x 6 ssgunthrope ssgunthrope 4096 Oct 27 14:31 labs
rwxrwxr-x 2 ssgunthrope ssgunthrope 4096 Oct 27 20:12 weekReports
ssgunthrope@cis106vm:/usr$ ls -lh /home/ssgunthrope/
-rw-rw-r-- 1 ssgunthrope ssgunthrope
                                      0 Oct 26 18:18 bike
rw-rw-r-- 1 ssgunthrope ssgunthrope
                                      0 Oct 26 17:26 chips
drwxrwxr-x 6 ssgunthrope ssgunthrope 4.0K Oct 12 12:13 cis106
                                      0 Oct 26 18:18 controller
rw-rw-r-- 1 ssgunthrope ssgunthrope
rw-rw-r-- 1 ssgunthrope ssgunthrope
                                      0 Oct 26 18:10 cookie.txt
drwxr-xr-x 3 ssgunthrope ssgunthrope 4.0K Oct 26 18:54 Documents
drwxr-xr-x 6 ssgunthrope ssgunthrope 4.0K Oct 27 20:22 Downloads
                                      0 Oct 26 18:18 games
rw-rw-r-- 1 ssgunthrope ssgunthrope
rw-rw-r-- 1 ssgunthrope ssgunthrope 108 Sep 28 13:49 githubcommands.txt
irwxrwxr-x 2 ssgunthrope ssgunthrope 4.0K Feb 22 2022 lab4files
drwxr-xr-x 2 ssgunthrope ssgunthrope 4.0K Oct 26 18:48 Music
drwxrwxr-x 2 ssgunthrope ssgunthrope 4.0K Oct 19 18:50 myproject
-rw-rw-r-- 1 ssgunthrope ssgunthrope
                                     0 Oct 19 18:25 no_more_heroes.txt
drwxr-xr-x 3 ssgunthrope ssgunthrope 4.0K Oct 27 20:38 Pictures
drwxrwxr-x 2 ssgunthrope ssgunthrope 4.0K Oct 26 17:33 power
irwx----- 5 ssgunthrope ssgunthrope 4.0K Sep 28 13:23 <mark>snap</mark>
rw-rw-r-- 2 ssgunthrope ssgunthrope
                                      0 Oct 26 18:48 sunflower.mp3
drwxr-xr-x 2 ssgunthrope ssgunthrope 4.0K Sep 28 12:59 Templates
drwxrwxr-x 2 ssgunthrope ssgunthrope 4.0K Oct 26 17:28 Texture_Plants
drwxr-xr-x 2 ssgunthrope ssgunthrope 4.0K Oct 19 18:44 <mark>Videos</mark>
drwxrwxr-x 4 ssgunthrope ssgunthrope 4.0K Oct 19 18:26 website
sgunthrope@cis106vm:/usr$
```

The Linux file system directories and their purpose

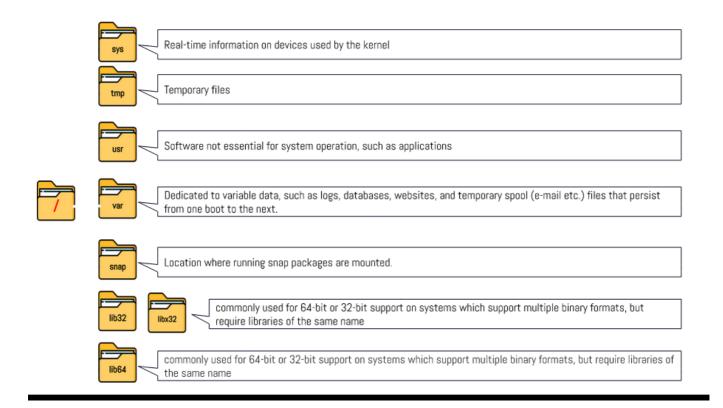
FS₁



FS₂



FS 3



All the commands for navigating the file system

Command	What it does	Syntax	Example
pwd	prints current directory	pwd	pwd
cd	allows you to move your current directory	ls	ls
ls	allows you to look at files inside of directories	cd	cd

Basic Terminology

File System: the way files are stored and organized. **Current Directory:** the directory where you are currently in the file system. **Parent Directory:** the folder above all subfolders. **difference between home directory and your home directory:** your home directory is a directory that you have full permissions in while the home directory access is allow given to admins. **Pathnames:** the location of a file. **RelativePath:** the location starting from the current working directory. **AbsolutePath:** The location of a file starting from the root.