Week Report 4

Practice from the presentation The Linux File system:

Practice 1

```
cimota@cimota:/$ pwd

cimota@cimota:/$ cd /home/cimota/Downloads/
cimota@cimota:/$ cd /home/cimota/Downloads/
cimota@cimota:/Downloads$ pwd
'home/cimota/Downloads cd ...
cimota@cimota:-$ cd ../../
cimota@cimota:/$ pwd

cimota@cimota:/$ cd -
'home/cimota
cimota@cimota:-$
```

Practice 2

```
:\nota@clmota:-$ pwd
/home/clmota
                  inotagcinota:-$ cd /home/cimota/Desktop/practicels
         cinotagcinota:- $ cd /home/cinota/Desktop/practicels cinotagcinota:-/Desktop/practicels $ is book.txt history-debian.pdf novie.mp4 song.mp3 tux-penguin.gif countries.xml homework.docx people.csv tux-nobg.png cinotagcinota:-/Desktop/practicels$ is -a countries.xml novie.mp4 tux-nobg.png history-debian.pdf people.csv tux-penguin.gif book.txt homework.docx song.mp3 cook.txt homework
         rimota@cimota:-/Besktop/practicels$ is -1
cotal 2932
      -rw-rw-r-- 1 cimota cimota 44299 Jan 31 2020 tux-penguin.gif cimota@cimota:-/Desktop/practicels$ is -lh total 2.9M
-rw-rw-rw-r-- 1 cimota cimota 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 cimota cimota 160K Feb 27 2022 countries.xml
-rw-rw-r-- 1 cimota cimota 160K Feb 27 2022 homework.docx
-rw-rw-r-- 1 cimota cimota 15M Feb 27 2022 movie.mpd
-rw-rw-r-- 1 cimota cimota 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 cimota cimota 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 cimota cimota 21K Feb 27 2022 tux-nobg.pmg
-rw-rw-r-- 1 cimota cimota 44K Jan 31 2020 tux-penguin.gif
cimota@cimota:-/Desktop/practicels$ is -lht
total 2.9M
-rw-rw-r-- 1 cimota cimota 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 cimota cimota 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 cimota cimota 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 cimota cimota 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 cimota cimota 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 cimota cimota 1.5M Feb 27 2022 movie.mpd
-rw-rw-r-- 1 cimota cimota 1.5M Feb 27 2022 movie.mpd
-rw-rw-r-- 1 cimota cimota 1.5M Feb 27 2022 movie.mpd
-rw-rw-r-- 1 cimota cimota 1.5M Feb 27 2022 book.txt
-rw-rw-r-- 1 cimota cimota 1.5M Feb 27 2022 book.txt
-rw-rw-r-- 1 cimota cimota 1.5M Feb 27 2022 book.txt
-rw-rw-r-- 1 cimota cimota 1.5M Feb 27 2022 book.txt
-rw-rw-r-- 1 cimota cimota 1.5M Feb 27 2022 book.txt
-rw-rw-r-- 1 cimota cimota 1.5M Feb 27 2022 book.txt
-rw-rw-r-- 1 cimota cimota 1.5M Feb 27 2022 book.txt
-rw-rw-r-- 1 cimota cimota 1.5M Feb 27 2022 book.txt
-rw-rw-r-- 1 cimota cimota 1.5M Feb 27 2022 book.txt
-rw-rw-r-- 1 cimota cimota 1.5M Feb 27 2022 book.txt
-rw-rw-r-- 1 cimota cimota 1.5M Feb 27 2022 book.txt
-rw-rw-r-- 1 cimota cimota 1.5M Feb 27 2022 book.txt
-rw-rw-r-- 1 cimota cimota 209K Feb 22 2022 book.txt
-rw-rw-r-- 1 cimota cimota 209K Feb 22 2022 book.txt
-rw-rw-r-- 1 cimota cimota 209K Feb 22 2022 book.txt
-rw-rw-r-- 1 cimota cimota 209K Feb 22 2022 book.txt
            otal 2.9M
      total 2.9M
4.0K -rw-rw-r-- 1 cimota cimota 1.1K Feb 27 2022 book.txt
24K -rw-rw-r-- 1 cimota cimota 24K Feb 27 2022 countries.xml
160K -rw-rw-r-- 1 cimota cimota 160K Feb 27 2022 history-debian.pdf
112K -rw-rw-r-- 1 cimota cimota 105K Feb 22 2022 honework.docx
1.5M -rw-rw-r- 1 cimota cimota 1.5M Feb 27 2022 movie.mp4
         380 - Tw-rx-r-- 1 chnota cimota 1.5N Feb 27 2022 movie.mp4
380 - Tw-rx-r-- 1 cimota cimota 2/8N Feb 27 2022 people.csv
480 - Tw-rx-r-- 1 cimota cimota 2/8N Feb 27 2022 geogle.csv
480 - Tw-rx-r-- 1 cimota cimota 2/8N Feb 27 2022 tox-nobg.pmg
480 - Tw-rx-r-- 1 cimota cimota 44N Jan 31 2020 tox-nobg.pmg
480 - Tw-rx-r-- 1 cimota cimota 44N Jan 31 2020 tox-nobg.pmg
480 - Tw-rx-r-- 1 cimota cimota 44N Jan 31 2020 tox-nobg.pmg
480 - Tw-rx-r-- 1 cimota cimota 44N Jan 31 2020 tox-nobg.pmg
480 - Tw-rx-r-- 1 cimota cim
```

Practice 3

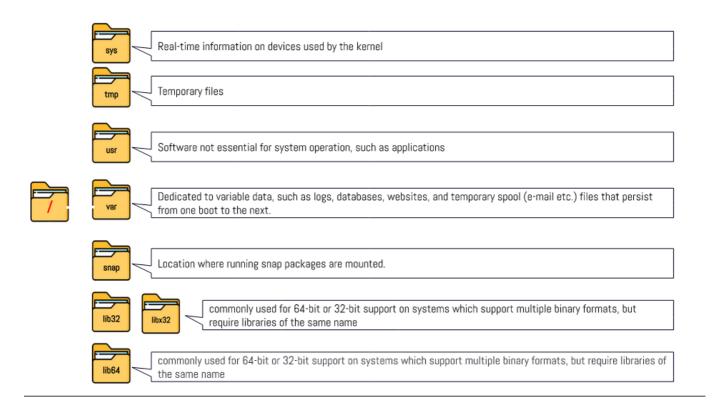
```
inoragcinota:-$ cd
inotagcinota:-$ cd /
inotagcinota:/$ cd usr/share/themes
       inotagcinota:/usr/share/thenes$ cd ../../
inotagcinota:/usr$ ls -A ~
.bash_history gitcommands.txt
                                                                                        gitcommands.txt
       .bash_logout
.bashrc
                                                                                                                                                                                                                               .sudo_as_admin_successful
                                                                                                                                                                                                                                . SWP
                                                                                                                                                                                                                              .vboxclient-clipboard.pid
.vboxclient-draganddrop.pid
.vboxclient-seamless.pid
.vboxclient-vmsvga-session-tty2.pid
                                                                                                                                                                                                                              .viminfo
                                                                                                                                    .profile
     :imota@cimota:/usr$ cd; ls -tX CIS106
   cheatSheets 'final project toos
timota@cimota:-$ ls -rR -/CIS106/
/home/cimota/CIS106/:
weekReports Labs 'final project' cheatSheets
                  me/cimota/CIS106/weekReports:
                     p2.png wr4-p2.1.1.png wr4.md wr3.md fs.2.png
p2.1.png wr4-p1.png wr3.pdf fs.3.png fs.1.png
  /home/cimota/CIS106/Labs:
   /home/cimota/CIS106/Labs/Lab3:
q2.1.png 'LibreOffice Writer.pdf'
q1.1.png 'LibreOffice Impress.odp'
    /home/cimota/CIS106/Labs/Lab2:
             uestion 4.png' 'question 2.png' 'question 1.1.png' lab2.md
uestion 3.png' 'question 1.2.png' lab2.pdf
                  me/clmota/CIS106/Labs/Lab1:
#isubuntu.txt what-is-ubuntu.pdf resume.pdf
-df ubuntu-logo.png resume.md
    whatisubuntu.txt
what_is_ubuntu_submission.pdf
what_is_ubuntu_submission.md
     hat_is_ubuntu_submission.html
                             caddy.jpg caddy.jpg caddy.jpg caddy.jpg ffrewall_50.jpg apache_server.jpg
server-804x270.jpeg deliverable_1.nd
cimota/CIS106/cheatSha.i
      home/clmota/CIS106/cheatSheets:
Linux Workshop Ubuntu Software installation cheat sheet.png'
  ctnotalcthota: 5 is -th -
total 72K

drwxrwxr-x 8 cimota cimota 4.0K Feb 23 23:35

drwxrwxr-x 4 cimota cimota 4.0K Feb 1 14:35 'CIS106 - C++'
drwxrwxr-x 2 cimota cimota 4.0K Feb 15 21:05 'commands for terminal'
drwxr-xr-x 2 cimota cimota 4.0K Feb 15 21:05 'commands for terminal'
drwxr-xr-x 2 cimota cimota 4.0K Feb 24 00:50 'Desktop
drwxr-xr-x 2 cimota cimota 4.0K Feb 1 11:59 'Documents
drwxr-xr-x 2 cimota cimota 4.0K Feb 24 00:50 'Downloads
-rw-r---- 1 cimota cimota 91 Jan 30 22:20 'gitcommands.txt
drwxr-xr-x 2 cimota cimota 4.0K Feb 15 17:16 'Key
-rw-rw-r-- 1 cimota cimota 40K Feb 10 13:33 'key1
-rw-rw-r-- 1 cimota cimota 107 Feb 20 13:35 'key1_1
-rw-r--- 1 cimota cimota 106 Feb 20 13:35 'key1_pub
drwxr-xr-x 2 cimota cimota 4.0K Jan 30 20:30 'Public
drwxr-xr-x 2 cimota cimota 4.0K Feb 11 01:32 'Smap
drwxr-xr-x 2 cimota cimota 4.0K Jan 30 20:30 'Public
drwxr-xr-x 2 cimota cimota 4.0K Feb 11 01:32 'Smap
drwxr-xr-x 2 cimota cimota 4.0K Jan 30 20:30 'Templates
drwxr-xr-x 2 cimota cimota 4.0K Jan 30 20:30 'Templates
drwxr-xr-x 2 cimota cimota 4.0K Jan 30 20:30 'Templates
drwxr-xr-x 2 cimota cimota 4.0K Jan 30 20:30 'Videos
cimotalcimota: 5 is -igG --full-time -
total 72
| STMXT-XT-X 2 CHROLG CLINICS 4.0K JOHN 25 CHROLG CLINICS CLIN
                                                                                                                                                                                                                                                                                      gitcommands.txt
```

The Linux File system directories and their purpose:





All the commands for navigating the filesystem

Command	What it does	Syntax	Example
cd	change the current working directory	cd + directory + Documents	cd [directory]
pwd	print the current working directory	pwd + Enter key + Return key	pwd
ls	list the files and directories	ls + /path/to/directory	ls /path/to/directory

Basic terminology

- **File system** is a method for storing, organizing, and accessing files and directories on a storage device such as a hard drive or solid-state drive. A file system defines how files and directories are named, accessed, and managed on a storage device. It also specifies how the data is stored and retrieved from the storage device.
- **Current directory** is the directory or folder that is currently active or open in the command prompt or terminal window. When you type a command or run a program in the command prompt or terminal window, it will execute within the context of the current directory.
- **parent directory** is the directory that contains the current directory or folder. In a hierarchical file system, directories are arranged in a tree-like structure, with the root directory at the top and subdirectories branching off from it. Each directory can have one or more child directories, as well as a parent directory (except for the root directory, which has no parent directory).
- the difference between your home directory and the home directory "Your home directory" refers to the home directory of the currently logged-in user on a computer system. Each user

account on a computer system has its own home directory, which is a default location for storing user-specific files, settings, and configurations. On the other hand, "The home directory" refers to a standard directory on a Unix or Unix-like system that is used as the default location for a user's files and directories. The home directory is usually represented by the tilde character "~", and it is typically located in the root directory of the file system.

- **pathname** is a string of characters that specifies the unique location of a file or directory within a file system. It defines the full path, or the sequence of directories and subdirectories, from the root directory to the specific file or directory.
- **relative path** is a path that describes the location of a file or directory relative to the current working directory, rather than from the root directory. Relative paths are typically constructed using special symbols that represent the current directory (.), the parent directory (.), and the path separator (/ or , depending on the operating system).
- **absolute path** is a complete path that describes the location of a file or directory within a file system, starting from the root directory.

In an absolute path, every directory in the path is specified, beginning with the root directory, and each directory is separated by the path separator (/ or , depending on the operating system). This ensures that the path is unique and unambiguous, regardless of the current working directory.