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name: sahil v patel
course: cis 106
semester: spring 23
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Week Report 4

Practice from the presentation The Linux File System:

Practice 1

```
1/1 ~ + []
                귝
                              Tilix: svpatel@ubuntucis106: /
1: svpatel@ubuntucis106: / ~
svpatel@ubuntucis106:~$ pwd
/home/svpatel
svpatel@ubuntucis106:~$ cd Downloads/
svpatel@ubuntucis106:~/Downloads$ pwd
/home/svpatel/Downloads
svpatel@ubuntucis106:~/Downloads$ cd ./.
svpatel@ubuntucis106:~$ pwd
/home/svpatel
svpatel@ubuntucis106:~$ cd ../../
svpatel@ubuntucis106:/$ pwd
svpatel@ubuntucis106:/$ cd
svpatel@ubuntucis106:~$ cd -
svpatel@ubuntucis106:/$ pwd
svpatel@ubuntucis106:/$ _
```

Practice 2

```
svpatel@ubuntucis106:-$ wget http://cis106.com/assets/practicels.tar.xz
--2023-10-16 22:34:33-- http://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|:80... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://cis106.com/assets/practicels.tar.xz [following]
--2023-10-16 22:34:33-- https://cis106.com/assets/practicels.tar.xz
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'
 2023-10-16 22:34:33 (7.15 MB/s) - 'practicels.tar.xz' saved [2229212/2229212]
   svpatel@ubuntucis106:~$ tar Jxf practicels.tar.xz
svpatel@ubuntucis106:~$ cd practicels/
                                                                                                                      ticels$ ls
 svpateLgubuntucts106:-/practicets is book.txt history-debian.pdf movie.mp4 song.mp3 countries.xml homework.docx people.csv tux-nobg.png svpatelgubuntucts106:-/practicets is -a countries.xml movie.mp4 tux-nobg.png .. history-debian.pdf people.csv tux-penguin.gif book.txt homework.docx song.mp3
                         txt homework.docx song.mp3
el@ubuntucis106:~/practicels$ ls -l
  total 2932
   total 2932
-rw-rw-r-- 1 svpatel svpatel 1043 Feb 27 2022 book.txt
-rw-rw-rr-- 1 svpatel svpatel 23972 Feb 27 2022 countries.xml
-rw-rw-rw-r-- 1 svpatel svpatel 163057 Feb 27 2022 history-debian.pdf
-rw-rw-rr-- 1 svpatel svpatel 111303 Feb 22 2022 homework.docx
-rw-rw-rr-- 1 svpatel svpatel 1570024 Feb 27 2022 movte.mp4
-rw-rw-rr-- 1 svpatel svpatel 284042 Feb 27 2022 people.csv
-rw-rw-rr-- 1 svpatel svpatel 764176 Feb 27 2022 geople.csv
-rw-rw-rr-- 1 svpatel svpatel 21314 Feb 27 2022 tux-nobg.png
-rw-rw-rr-- 1 svpatel svpatel 44299 Jan 31 2020 tux-penguin.gif
                                                                                                                          icels$ ls -lh
   total 2.9M
    total 2.9M
-rw-rw-r-- 1 svpatel svpatel 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 svpatel svpatel 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 svpatel svpatel 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 svpatel svpatel 109K Feb 22 2022 homework.docx
     rw-rw-r-- 1 sypatel sypatel 1.5M Feb 27 2022 movle.mp4
rw-rw-r-- 1 sypatel sypatel 278K Feb 27 2022 people.csv
rw-rw-r-- 1 sypatel sypatel 747K Feb 27 2022 song.mp3
rw-rw-r-- 1 sypatel sypatel 21K Feb 27 2022 tux-nobg.p
                                                                                                                                                                                    2022 tux-nobg.pr
                                                                                                                              21K Feb 27 2022 tux-nobg.png
44K Jan 31 2020 tux-penguin.gif
     -rw-rw-r-- 1 svpatel svpatel
   svpatel@ubuntucis106:~/practicels$ ls -lh
total 2.9M
  total 2.9M

-rw-rw-r-- 1 svpatel svpatel 1.1K Feb 27 2022 book.txt

-rw-rw-r-- 1 svpatel svpatel 24K Feb 27 2022 countries.xml

-rw-rw-r-- 1 svpatel svpatel 160K Feb 27 2022 history-debian.pdf

-rw-rw-r-- 1 svpatel svpatel 109K Feb 22 2022 howework.docx

-rw-rw-r-- 1 svpatel svpatel 1.5M Feb 27 2022 movie.mp4

-rw-rw-r-- 1 svpatel svpatel 274K Feb 27 2022 people.csv

-rw-rw-r-- 1 svpatel svpatel 274F Feb 27 2022 tux-nobg.png

-rw-rw-r-- 1 svpatel svpatel 24K Jan 31 2020 tux-penguin.gif

svpatel@ubuntucis106:~/practicels$ ls -lht
svpatel@ubuntacks
total 2.9M
-rw-rw-r-- 1 svpatel svpatel 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 svpatel svpatel 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 svpatel svpatel 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 svpatel svpatel 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 svpatel svpatel 1.5M Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 svpatel svpatel 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 svpatel svpatel 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 svpatel svpatel 109K Feb 22 2022 bookwork.docx
-rw-rw-r-- 1 svpatel svpatel 44K Jan 31 2020 tux-penguin.gif
svpatel@ubuntucis106:~/practicels$ ls -lhgGs
 total 2.9M
4.0K -rw-rw-r-- 1 1.1K Feb 27 2022 book.txt
24K -rw-rw-r-- 1 24K Feb 27 2022 countries.xml
160K -rw-rw-r-- 1 160K Feb 27 2022 history-debian.pdf
112K -rw-rw-r-- 1 109K Feb 22 2022 homework.docx
1.5M -rw-rw-r-- 1 1.5M Feb 27 2022 movie.mp4
280K -rw-rw-r-- 1 278K Feb 27 2022 people.csv
748K -rw-rw-r-- 1 21K Feb 27 2022 song.mp3
24K -rw-rw-r-- 1 21K Feb 27 2022 tux-nobg.png
44K -rw-rw-r-- 1 44K Jan 31 2020 tux-penguin.gif
sypatel@ubuntucks106:-/practicels$ ls -mr
  pengutn.gtF, tux-nobg.png, song.mp3, people.csv, movie.mp4, homework.docx,
htspace.geography.countries.xml, book.txt
supatelgubuntucis106:-/practicels$ ls -1X
people.csv
```

Practice 3

cis106:~/practicels\$

tux-penguin.gif song.mp3 movie.mp4 history-debian.pdf turnobg.png book.txt countries.xml

```
ntucis106:~$ pwd
 /home/svpatel
  /home/svpatel
svpatel@ubuntucis106:-$ cd
svpatel@ubuntucis106:-$ cd /
svpatel@ubuntucis106:/$ cd usr/share/themes
svpatel@ubuntucis106:/usr/share/themes$ cd
    vpatel@ubuntucis106:/usr$ ls -A ~
                                                                              .sudo_as_admin_successful
  .bash_logout
.bashrc
                                    .logo100x100.png .vboxclient-clipboard-tty2-control.pid
                                                           00.png    .vboxclient-clipboard-tty2-control.pid
    .vboxclient-clipboard-tty2-service.pid
    .vboxclient-draganddrop-tty2-control.pid
    .vboxclient-draganddrop-tty2-service.pid
    .vboxclient-bostversion-tty2-control.pid
    .vboxclient-seamless-tty2-control.pid
    .vboxclient-seamless-tty2-service.pid
    .vboxclient-wnsvga-session-tty2-control.pid
   is106 .mozilla
cis106.png Music
cis106.png.png Pictures
                                    .profile
                                                                             .vboxclient-vmsvga-session-tty2-service.pid
  .gitconfig .ssh
synatel@ubuntucis106:/usr$ cd; ls -tX cis106
   vpatel@ubuntucis106:~$ ls -rR ~/cis106
   home/svpatel/cis106:
  /home/svpatel/cis106/week reports':
  '/home/svpatel/cis106/week reports/WR4':
 WEEKREPORT.md PRACTICE2.1.png 1.4.png 1.2.png
PRACTICE2.2.png practice1.png 1.3.png 1.1.png
  /home/svpatel/cis106/week reports/WR3':
                 wr3.md wr3.jpeg
  /home/svpatel/cis106/labs:
  nome/sypate/cision/tabs:
whatisubuntu.txt
what_is_ubuntu_submission.pdf
what_is_ubuntu_submission.md
what_is_ubuntu_submission.html
what-is-ubuntu.pdf
                                                                         john_doe_submission_final.html
                                                                        johndoe.jpeg
johndoeinfo.txt
final_editted_ubuntu_sub.pdf
final_editted_ubuntu_sub.md
final_editted_ubuntu_sub.html
Final_edited_John_Sub.pdf
Final_edited_John_Sub.md
Final_edited_John_Sub.md
   john_doe_submission_final.pdf
   john doe submission final.md
                                                                               'exported pdf.pdf
  '/home/svpatel/cis106/lab 4':
  /home/svpatel/cis106/lab 4/Question 5':
   5.2.png q5.1.png
  /home/svpatel/cis106/lab 4/question 4':
   9.png q8.1.png q6.png q4.4.png q4.2.png q10.3.png q10.1.png
8.2.png q7.png q5.png q4.3.png q4.1.png q10.2.png
  /home/svpatel/cis106/lab 4/question 2':
  /home/svpatel/cis106/lab 4/questio 1':
 /home/svpatel/cis106/lab3:
   /home/svpatel/cis106/lab3/lab 3':
                                                                                                              2023-10-08_01-00.png
2023-10-08_01-00_1.png
2023-10-08_00-59.png
2023-10-08_00-58.png
  'Untitled Document 1'
PRESENTATION.odp
                                                    lab3.jpeg
lab3.html
  pdf1.pdf
                                                        export.pdf
                                                        2.1.png
2023-10-08_01-15.png
2023-10-08_01-01.png
   lab3.pdf
 /home/svpatel/cis106/cheatsheet:
   vpatel@ubuntucis106:~$ ls -lh ~
total 2.2M

drwxrwxr-x 8 svpatel svpatel 4.0K Oct 11 18:52 cts106

drwxr-xr-x 2 svpatel svpatel 4.0K Oct 4 14:35 Desktop

drwxr-xr-x 5 svpatel svpatel 4.0K Oct 11 18:01 Documents

drwxr-xr-x 2 svpatel svpatel 4.0K Oct 11 18:28 Downloads

drwxr-xr-x 2 svpatel svpatel 4.0K Feb 22 2022 lab4files

drwxr-xr-x 2 svpatel svpatel 4.0K Sep 27 15:04 Music

drwxr-xr-x 2 svpatel svpatel 4.0K Sep 27 16:59 Pictures

drwxr-xr-x 2 svpatel svpatel 4.0K Feb 27 2022 practicels

-rw-rw-r-- 1 svpatel svpatel 4.0K Sep 27 16:59 Pictures

drwxr-xr-x 2 svpatel svpatel 4.0K Sep 27 15:04 Public

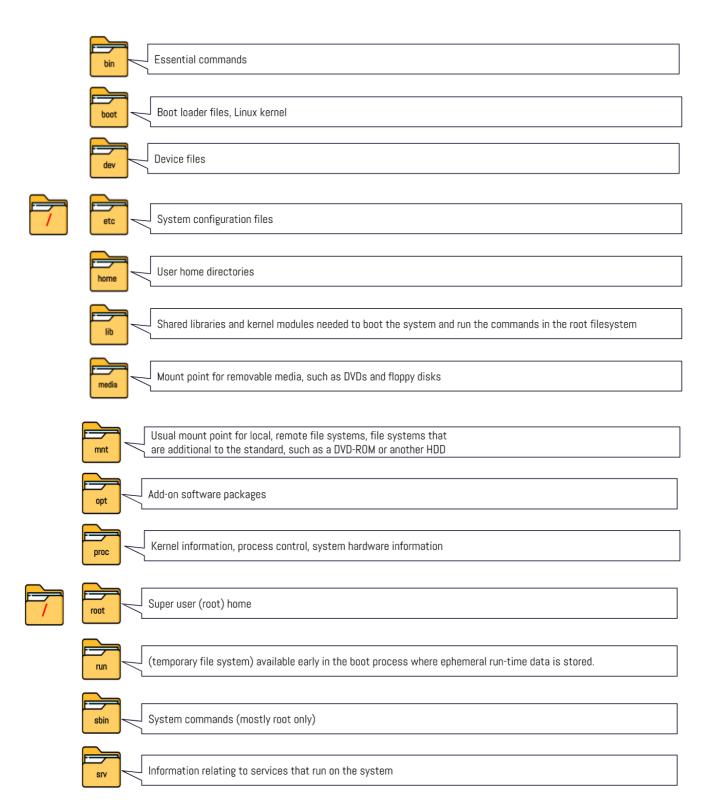
drwx-xr-x 2 svpatel svpatel 4.0K Oct 8 01:15 snap

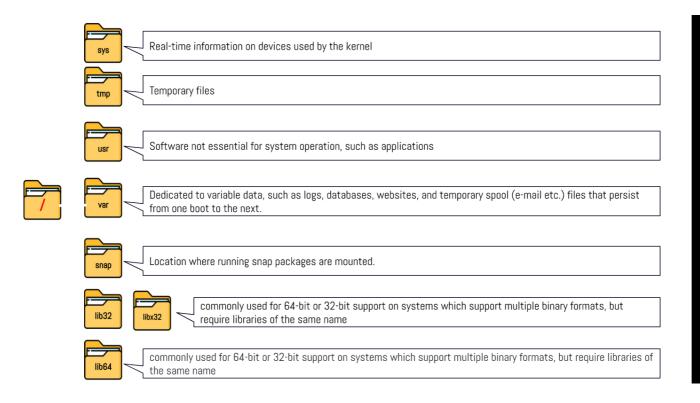
drwxr-xr-x 2 svpatel svpatel 4.0K Sep 27 15:04 Templates

drwxr-xr-x 2 svpatel svpatel 4.0K Sep 27 15:04 Videos

svpatel@ubuntucis106:-$ ls -lgG -full-time ~
 total 2.2M
```

The Linux from the presentation The Linux File System:





All the commands for navigating the filesystem

Command	What it does	Syntax	Example
pwd	prints current directory	pwd	pwd
cd	return to home directory	cd	cd
ls	To display the files and directories in your current working directory	ls	ls

Basic terminology

- **File System:** A file system is a method and data structure used by an operating system to manage and organize files on a storage device, such as a hard drive or SSD. It provides a hierarchical structure for storing, retrieving, and managing data.
- **Current Directory:** The current directory, often denoted by a single dot (.) in Linux, represents the directory in which you are currently working. Any file or directory operations you perform are relative to the current directory unless you specify an absolute path.
- **Parent Directory:** The parent directory, represented by two dots (..) in Linux, refers to the directory one level up in the directory hierarchy. It is the directory that contains the current directory.
- **Home Directory:** The home directory, often referred to as "~" (tilde), is the default directory for a specific user in Linux. Each user has their own home directory, and it is the directory in which the user starts when they log in. It is also where user-specific configuration files and personal data are typically stored.
- The Difference Between Your Home Directory and the Home Directory: Your home directory is a specific user's personal directory where they have their own files and settings. The "home directory" typically refers to the base directory containing all user home directories on a system. Each user's home directory is a subdirectory within the "home directory."

• **Pathname:** A pathname is a string that describes the location of a file or directory within a file system. It can be either an absolute path or a relative path and is used to navigate and locate files and directories in the file system.

- **Relative Path:** A relative path specifies the location of a file or directory in relation to the current directory. It doesn't start from the root directory and typically involves navigating up or down the directory hierarchy using symbols like ".." (parent directory) and directory names.
- **Absolute Path:** An absolute path specifies the precise location of a file or directory from the root of the file system. It begins with a forward slash ("/") in Linux and provides the full path from the root directory to the target file or directory. It doesn't depend on the current directory and remains constant regardless of where you are in the file system.