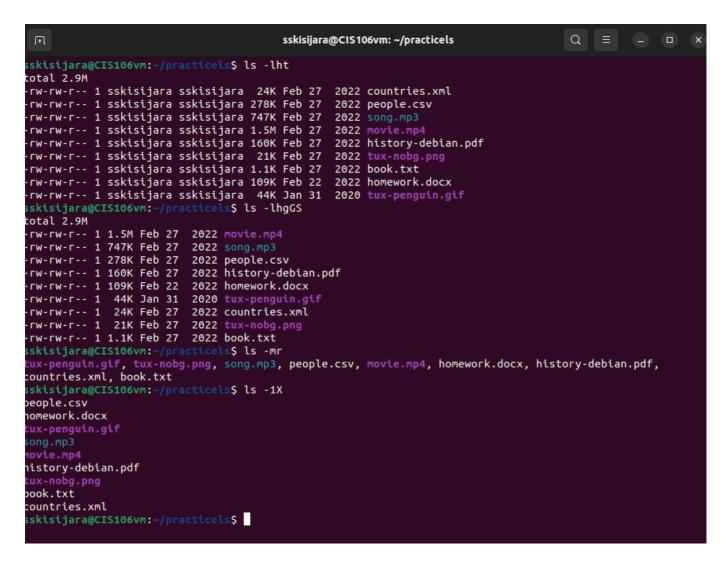
Week Report 4

1. Practice Exercises

```
a.
  Ŧ
                               sskisijara@CIS106vm: /
                                                         Q
                                                                        sskisijara@CIS106vm:~$ pwd
/home/sskisijara
sskisijara@CIS106vm:~$ cd Downloads/
sskisijara@CIS106vm:~/Downloads$ pwd
/home/sskisijara/Downloads
sskisijara@CIS106vm:~/Downloads$ cd ...
sskisijara@CIS106vm:~$ pwd
/home/sskisijara
sskisijara@CIS106vm:~$ cd ../../
sskisijara@CIS106vm:/$ pwd
sskisijara@CIS106vm:/$ cd
sskisijara@CIS106vm:~$ cd -
sskisijara@CIS106vm:/$ pwd
sskisijara@CIS106vm:/$ I used relative path
```

b.

```
sskisijara@CIS106vm: ~/practicels
sskisijara@CIS106vm:/$ cd ~
sskisijara@CIS106vm:~$ wget https://cis106.com/assets/practicels.tar.xz
--2022-10-13 18:43:27-- 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
                                   2.12M 5.72MB/s
                                                                                                                          in 0.4s
2022-10-13 18:43:28 (5.72 MB/s) - 'practicels.tar.xz' saved [2229212/2229212]
sskisijara@CIS106vm:~$ tar Jxf practicels.tar.xz
sskisijara@CIS106vm:~$ cd practicels/
sskisijara@CIS106vm:~/practicels$ ls
                   history-debian.pdf movie.mp4 song.mp3
homework.docx people.csv tux-nobg.png
book.txt
                                                                                tux-penguin.gif
countries.xml homework.docx
sskisijara@CIS106vm:~/practicels$ ls -a
                        history-debian.pdf movie.mp4
     book.txt
     countries.xml homework.docx
                                                  people.csv
sskisijara@CIS106vm:~/practicels$ ls -l
total 2932
-rw-rw-r-- 1 sskisijara sskisijara 1043 Feb 27 2022 book.txt
-rw-rw-r-- 1 sskisijara sskisijara 23972 Feb 27 2022 countries.xml
-rw-rw-r-- 1 sskisijara sskisijara 163057 Feb 27 2022 history-debian.pdf
 rw-rw-r-- 1 sskisijara sskisijara 111303 Feb 22 2022 homework.docx
 rw-rw-r-- 1 sskisijara sskisijara 1570024 Feb 27
                                                                  2022 movie.mp4
-rw-rw-r-- 1 sskisijara sskisijara 15/0024 Feb 2/ 2022 movie.mp4
-rw-rw-r-- 1 sskisijara sskisijara 284042 Feb 27 2022 people.csv
 -rw-rw-r-- 1 sskisijara sskisijara 764176 Feb 27 2022 song.mp3
-rw-rw-r-- 1 sskisijara sskisijara 21314 Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 sskisijara sskisijara 44299 Jan 31 2020 tux-penguin.gif
 rw-rw-r-- 1 sskisijara sskisijara
sskisijara@CIS106vm:~/practicels$ ls -lh
total 2.9M
-rw-rw-r-- 1 sskisijara sskisijara 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 sskisijara sskisijara 24K Feb 27 2022 countries
                                                              2022 countries.xml
-rw-rw-r-- 1 sskisijara sskisijara 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 sskisijara sskisijara 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 sskisijara sskisijara 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 sskisijara sskisijara 278K Feb 27 2022 people.csv
 rw-rw-r-- 1 sskisijara sskisijara 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 sskisijara sskisijara 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 sskisijara sskisijara 44K Jan 31 2020 tux-penguin.gif
sskisijara@CIS106vm:~/practicels$
```



c.

```
sskisijara@CIS106vm: ~
                                                                                      Q
skisijara@CIS106vm:~/practicels$ pwd
/home/sskisijara/practicels
sskisijara@CIS106vm:~/practicels$ cd
sskisijara@CIS106vm:~$ cd /
skisijara@CIS106vm:/$ cd usr/share/themes
sskisijara@CIS106vm:/usr/share/themes$ cd ../../
sskisijara@CIS106vm:/usr$ ls -A ~
bash_history Downloads
bash_logout gitcommands.txt
.bash_logout´
.bashrc
              .gitconfig
                                                               .vboxclient-clipboard.pid
                                                               .vboxclient-display-svga-x11.pid
              installprograms.sh .profile
                                                               .vboxclient-draganddrop.pid
                                                               .vboxclient-seamless.pid
              .lesshst
                                   .sudo_as_admin_successful website
skisijara@CIS106vm:/usr$ cd; ls -tX cis-106-f22/
skisijara@CIS106vm:~$ ls -rR ~/cis-106-f22/
/home/sskisijara/cis-106-f22/:
/home/sskisijara/cis-106-f22/week reports':
/home/sskisijara/cis-106-f22/week reports/week4':
vr4practice2.png wr4practice2.1.png wr4practice1.png
/home/sskisijara/cis-106-f22/week reports/week3':
wr3.pdf wr3.md page6.png examples2.png examples1.png
/home/sskisijara/cis-106-f22/week reports/week2':
wr2.pdf ubuntutwo.png ubuntuone.png ubuntufive.png clientside.png
wr2.md ubuntuthree.png ubuntufour.png serverside.png
/home/sskisijara/cis-106-f22/labs:
/home/sskisijara/cis-106-f22/labs/lab 4':
/home/sskisijara/cis-106-f22/labs/lab 3':
allhaven-9mjoy1.png q2.png
                                     linux.docx lab3.md
ubuntu-presentation.pptx linux.pdf lab3.pdf
/home/sskisijara/cis-106-f22/labs/lab 2':
creenshots lab2.pdf lab2.md
```

```
sskisijara@CIS106vm: ~
 Ŧ
                                                                                                Q =
sskisijara@CIS106vm:~$ ls -lh ~
total 2.2M
drwxrwxr-x 7 sskisijara sskisijara 4.0K Oct 13 19:16 cis-106-f22
drwxr-xr-x 3 sskisijara sskisijara 4.0K Oct 13 18:17 <mark>Desktop</mark>
drwxr-xr-x 2 sskisijara sskisijara 4.0K Oct 2 17:34 Documents
drwxr-xr-x 5 sskisijara sskisijara 4.0K Oct 13 19:16 Download:
rw-rw-r-- 1 sskisijara sskisijara
                                       48 Sep 30 19:01 gitcommands.txt
-rwxrwxr-x 1 sskisijara sskisijara 349 Sep 30 17:52 <mark>installprograms.sh</mark>
drwxr-xr-x 2 sskisijara sskisijara 4.0K Sep 22 13:32 Music
drwxr-xr-x 2 sskisijara sskisijara 4.0K Oct 12 18:52 Pictures
drwxrwxr-x 2 sskisijara sskisijara 4.0K Feb 27 2022 <mark>practicels</mark>
-rw-rw-r-- 1 sskisijara sskisijara 2.2M Oct 12 09:57
drwxr-xr-x 2 sskisijara sskisijara 4.0K Sep 22 13:32 Public
drwx----- 6 sskisijara sskisijara 4.0K Sep 30 18:00 snap
drwxr-xr-x 2 sskisijara sskisijara 4.0K Sep 22 13:32 Templates
drwxr-xr-x 2 sskisijara sskisijara 4.0K Sep 22 13:32 Videos
drwxrwxr-x 8 sskisijara sskisijara 4.0K Oct 12 18:35 website
sskisijara@CIS106vm:~$ ls -lgG -full-time ~
ls: invalid option -- '-'
ls: invalid option --
Try 'ls --help' for more information.
sskisijara@CIS106vm:~$ ls -lgG -full time ~
ls: cannot access 'time': No such file or directory
/home/sskisijara:
total 2324
drwxr-xr-x 2
                  4096 Oct 13 18:06 Templates
             1 2229212 Oct 13 18:45 practicels.tar.xz
- FW - FW - F - -
                   349 Sep 30 17:54 installprograms.sh
-rwxrwxr-x 1
                  4096 Oct 3 19:42 .pki
drwx-----
                  4096 Oct 13 18:48 practicels
4096 Oct 13 18:17 Desktop
drwxrwxr-x 2
drwxr-xr-x 3
drwxrwxr-x 3
                  4096 Oct 3 19:42 .vscode
- rw-rw-r--
                    48 Sep 30 19:01 gitcommands.txt
                  2254 Oct 12 18:11 .bash_history
- FW-----
                  4096 Oct 13 19:17 cis-106-f22
drwxrwxr-x 7
                  4096 Oct 13 18:06 snap
drwx----- 6
- - - - - - - - - - - -
                  3520 Oct 13 18:17 .cis106.png
drwxr-xr-x 5
                  4096 Oct 13 19:17 Downloads
drwx----- 3
                  4096 Oct 3 19:43 .mozilla
dгwхг-хг-х 3
-гw-гw-г-- 1
                  4096 Oct 13 18:06 ...
                    66 Oct
                             5 15:36 .gitconfig
drwx----- 22
                  4096 Oct
                             3 19:43 .config
                  4096 Oct 13 19:17 website
drwxrwxr-x 8
drwxr-x--- 23
                   4096 Oct 13 19:03
drwxr-xr-x 2
                   4096 Oct 13 18:06 Videos
                   4096 Oct 12 18:52 Pictures
drwxr-xr-x 2
                  4096 Oct 3 19:43 .thunderbird
4096 Oct 5 21:02 .ssh
drwx----
drwx----
drwxr-xr-x 2
                  4096 Oct 13 18:06 Music
```

2.

Directory Data Stored in Directory

bin	essential commands
dev	device files
etc	system configuration files
home	user home directories
media	mount point for removable media, such as DVDs and floppy disks
opt	add-on software packages
ргос	kernel information, process control, system hardware information
STV	information relating to services that run on the system
usr	software not essential for system operation, such as applications

Directory	Data Stored in Directory				
var	dedicated to variable data, such as logs, databases, websites, and temporary spool(email etc.) files that persist from one boot to the next				
Command	What it does	Syntax	Example		
pwd	displays the current working directory	pwd	pwd		
cd	changes the current working directory. When no directory is given, cd changes the current working directory to the home directory of the current user	cd + destination	cd ~		
ls	displays all the files inside a given directory. When no directory is specified, ls displays the files in the current working directory	ls + destination	ls -a		

1. Definitions of following terms:

- File system: the way files are stored and organized to simplify access to data
- Current directory: directory where you are at the moment
- Parent directory: moving backwards to the previous directory
- Difference between **YOUR HOME** directory and **THE HOME** directory:
- 1. "your home directory" refers to your user's home directory
- 2. "the home directory" refers to the home directory located in the root
- Pathname: every file has which indicates the location of the file in the file system
- Relative path: the location of a file starting from the current working directory or a directory that is located inside the current working directory
- Absolute path: the location of a file starting at the root of the file system

List of all the commands used for navigating the file system

- pwd
- cd
- Is
- tree
- dir
- exa