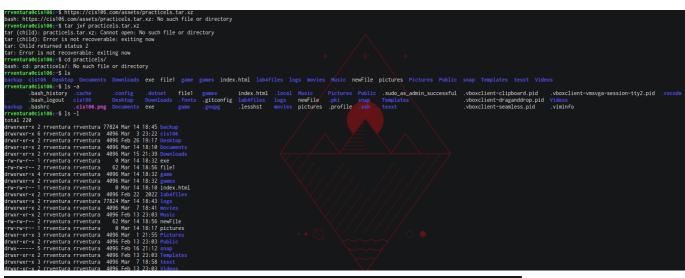
Week Report 4

Practice in the presentation The Linux File System:

practice 1

```
rrventura@cis106:~$ pwd
/home/rrventura
rrventura@cis106:~$ cd /home/\$uSER/Downloads/
bash: cd: /home/$uSER/Downloads/: No such file or directory
rrventura@cis106:~$ cd /home/$uSER/Downloads/
bash: cd: /home//Downloads/: No such file or directory
rrventura@cis106:~$ cd /home/$USER/Downloads
rrventura@cis106:~\Downloads\$ pwd
/home/rrventura/Downloads
rrventura@cis106:~\Cownloads\$ cd ..
rrventura@cis106:~\S cd ../../
rrventura@cis106:/\$ pwd
/
rrventura@cis106:/\$ cd -
/home/rrventura
rrventura@cis106:~\$
```

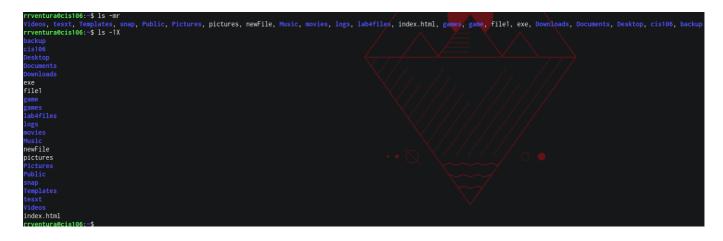
practice 2



```
rventura@cis106:~$ ls -lh
total 220K
drwxrwxr-x 2 rrventura rrventura 76K Mar 14 18:45 backup
drwxrwxr-x 6 rrventura rrventura 4.0K Mar 3 23:22 cis106
drwxr-xr-x 2 rrventura rrventura 4.0K Feb 26 19:17                           <mark>Desktop</mark>
drwxr-xr-x 2 rrventura rrventura 4.0K Mar 14 18:10 Documents
drwxr-xr-x 2 rrventura rrventura 4.0K Mar 15 21:39 Downloads
-rw-rw-r-- 1 rrventura rrventura   0 Mar 14 18:32 exe
-rw-rw-r-- 2 rrventura rrventura  62 Mar 14 18:56 file1
drwxrwxr-x 4 rrventura rrventura 4.0K Mar 14 18:32 game
drwxrwxr-x 2 rrventura rrventura 4.0K Mar 14 18:32 games
-rw-rw-r-- 1 rrventura rrventura
                                  0 Mar 14 18:10 index.html
drwxrwxr-x 2 rrventura rrventura 4.0K Feb 22 2022 lab4files
drwxrwxr-x 2 rrventura rrventura 76K Mar 14 18:43 logs
drwxrwxr-x 2 rrventura rrventura 4.0K Mar
                                           7 18:41 movies
drwxr-xr-x 2 rrventura rrventura 4.0K Feb 13 23:03 Music
-rw-rw-r-- 2 rrventura rrventura  62 Mar 14 18:56 newFile
rw-rw-r-- 1 rrventura rrventura 0 Mar 14 18:17 pictures
drwxr-xr-x 3 rrventura rrventura 4.0K Mar 1 21:55 Pictures
drwxr-xr-x 2 rrventura rrventura 4.0K Feb 13 23:03                            Public
drwx----- 5 rrventura rrventura 4.0K Feb 16 21:12 snap
drwxr-xr-x 2 rrventura rrventura 4.0K Feb 13 23:03 Templates
drwxrwxr-x 3 rrventura rrventura 4.0K Mar  7 18:58 <mark>tesxt</mark>
drwxr-xr-x 2 rrventura rrventura 4.0K Feb 13 23:03 Videos
rrventura@cis106:~$ ls -lht
total 220K
drwxr-xr-x 2 rrventura rrventura 4.0K Mar 15 21:39 Downloads
-rw-rw-r-- 2 rrventura rrventura  62 Mar 14 18:56 file1
rw-rw-r-- 2 rrventura rrventura 62 Mar 14 18:56 newFile
drwxrwxr-x 2 rrventura rrventura 76K Mar 14 18:45 backup
drwxrwxr-x 2 rrventura rrventura 76K Mar 14 18:43 logs
-rw-rw-r-- 1 rrventura rrventura    0 Mar 14 18:32 exe
drwxrwxr-x 4 rrventura rrventura 4.0K Mar 14 18:32 game
drwxrwxr-x 2 rrventura rrventura 4.0K Mar 14 18:32 games
-rw-rw-r-- 1 rrventura rrventura
                                   0 Mar 14 18:17 pictures
drwxr-xr-x 2 rrventura rrventura 4.0K Mar 14 18:10 Documents
-rw-rw-r-- 1 rrventura rrventura   0 Mar 14 18:10 index.html
drwxrwxr-x 3 rrventura rrventura 4.0K Mar  7 18:58 <mark>tesxt</mark>
                                           7 18:41 movies
drwxrwxr-x 2 rrventura rrventura 4.0K Mar
drwxrwxr-x 6 rrventura rrventura 4.0K Mar 3 23:22 cis106
drwxr-xr-x 3 rrventura rrventura 4.0K Mar
                                           1 21:55 Pictures
```

```
drwxr-xr-x 3 rrventura rrventura 4.0K Mar 1 21:55 Pictures
drwxr-xr-x 2 rrventura rrventura 4.0K Feb 26 19:17 Desktop
drwx----- 5 rrventura rrventura 4.0K Feb 16 21:12 snap
drwxr-xr-x 2 rrventura rrventura 4.0K Feb 13 23:03 Music
drwxr-xr-x 2 rrventura rrventura 4.0K Feb 13 23:03 Public
drwxr-xr-x 2 rrventura rrventura 4.0K Feb 13 23:03 Templates
drwxr-xr-x 2 rrventura rrventura 4.0K Feb 13 23:03 Videos
drwxrwxr-x 2 rrventura rrventura 4.0K Feb 22 2022 lab4files
rrventura@cis106:~$ ls -lhgGs
total 220K
 76K drwxrwxr-x 2 76K Mar 14 18:45 backup
4.0K drwxrwxr-x 6 4.0K Mar 3 23:22 cis106
4.0K drwxr-xr-x 2 4.0K Feb 26 19:17 Desktop
4.0K drwxr-xr-x 2 4.0K Mar 14 18:10 Documents
4.0K drwxr-xr-x 2 4.0K Mar 15 21:39 Downloads
   0 -rw-rw-r-- 1
                     0 Mar 14 18:32 exe
4.0K -rw-rw-r-- 2
                   62 Mar 14 18:56 file1
4.0K drwxrwxr-x 4 4.0K Mar 14 18:32 game
4.0K drwxrwxr-x 2 4.0K Mar 14 18:32 games
   0 -rw-rw-r-- 1
                     0 Mar 14 18:10 index.html
4.0K drwxrwxr-x 2 4.0K Feb 22 2022 lab4files
 76K drwxrwxr-x 2 76K Mar 14 18:43 logs
4.0K drwxrwxr-x 2 4.0K Mar
                           7 18:41 movies
4.0K drwxr-xr-x 2 4.0K Feb 13 23:03 Music
4.0K -rw-rw-r-- 2
                   62 Mar 14 18:56 newFile
   0 -rw-rw-r-- 1
                     0 Mar 14 18:17 pictures
4.0K drwxr-xr-x 3 4.0K Mar
                           1 21:55 Pictures
4.0K drwxr-xr-x 2 4.0K Feb 13 23:03 Public
4.0K drwx----- 5 4.0K Feb 16 21:12 snap
4.0K drwxr-xr-x 2 4.0K Feb 13 23:03 Templates
4.0K drwxrwxr-x 3 4.0K Mar 7 18:58 tesxt
4.0K drwxr-xr-x 2 4.0K Feb 13 23:03 Videos
```

```
rrventura@cis106:~$ ls -lhgGS
total 220K
drwxrwxr-x 2
           76K Mar 14 18:45 backup
drwxrwxr-x 6 4.0K Mar 3 23:22 cis106
drwxr-xr-x 2 4.0K Feb 26 19:17 Desktop
drwxr-xr-x 2 4.0K Mar 14 18:10 Documents
drwxr-xr-x 2 4.0K Mar 15 21:39 Downloads
drwxrwxr-x 4 4.0K Mar 14 18:32 game
drwxrwxr-x 2 4.0K Mar 14 18:32 games
drwxrwxr-x 2 4.0K Feb 22
                    2022 lab4files
drwxrwxr-x 2 4.0K Mar 7 18:41 movies
drwxr-xr-x 3 4.0K Mar
                  1 21:55 Pictures
drwx----- 5 4.0K Feb 16 21:12 snap
drwxr-xr-x 2 4.0K Feb 13 23:03 Templates
                  7 18:58 tesxt
drwxrwxr-x 3 4.0K Mar
62 Mar 14 18:56 file1
-rw-rw-r-- 2
-rw-rw-r-- 2
            62 Mar 14 18:56 newFile
            0 Mar 14 18:32 exe
rw-rw-r-- 1
             0 Mar 14 18:10 index.html
rw-rw-r-- 1
-rw-rw-r-- 1 0 Mar 14 18:17 pictures
```



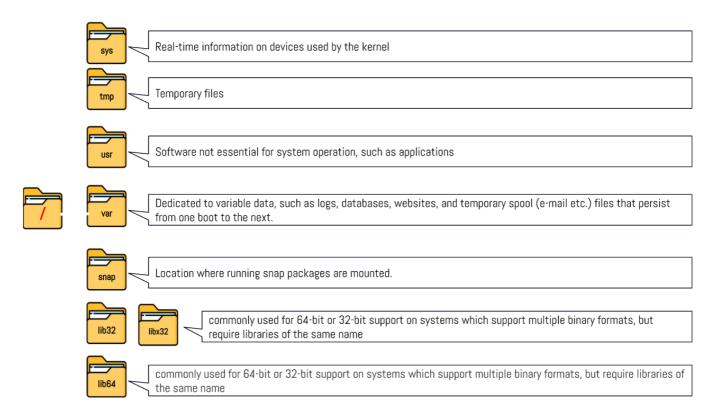
practice 3

```
ventura@cis106:~$ pwd
/home/rrventura
rrventura@cis106:~$ cd
rrventura@cis106:~$ cd /
rrventura@cis106:/$ cd usr/share/themes
rrventura@cis106:/usr/share/themes$ cd ../ ../
bash: cd: too many arguments
rrventura@cis106:/usr/share/themes$ ls -A ~
                                                                                  .vboxclient-vmsvga-session-tty2.pid
.bash_history Documents .gitconfig Music
.bash_logout
                                        newFile .sudo_as_admin_successful
                                                                                  .viminfo
                           index.html pictures Templates
.bashrc
               exe
               file1
                                                   .vboxclient-clipboard.pid
                           .lesshst
                                        .profile .vboxclient-draganddrop.pid
.cis106.png
                                                   .vboxclient-seamless.pid
rrventura@cis106:/usr/share/themes$ cd; ls -tX your-github-repository/
ls: cannot access 'your-github-repository/': No such file or directory
rrventura@cis106:~$ ls -rR ~/your-github-repository/
ls: cannot access '/home/rrventura/your-github-repository/': No such file or
```

```
rrventura@cis106:~$ ls -lh ~
total 220K
drwxrwxr-x 2 rrventura rrventura 76K Mar 14 18:45 backup
drwxrwxr-x 6 rrventura rrventura 4.0K Mar
                                          3 23:22 cis106
drwxr-xr-x 2 rrventura rrventura 4.0K Feb 26 19:17 Desktop
drwxr-xr-x 2 rrventura rrventura 4.0K Mar 14 18:10 Documents
drwxr-xr-x 2 rrventura rrventura 4.0K Mar 15 21:39 Downloads
-rw-rw-r-- 1 rrventura rrventura
                                    0 Mar 14 18:32 exe
 rw-rw-r-- 2 rrventura rrventura
                                   62 Mar 14 18:56 file1
drwxrwxr-x 4 rrventura rrventura 4.0K Mar 14 18:32 game
drwxrwxr-x 2 rrventura rrventura 4.0K Mar 14 18:32 games
                                    0 Mar 14 18:10 index.html
-rw-rw-r-- 1 rrventura rrventura
drwxrwxr-x 2 rrventura rrventura 4.0K Feb 22
                                              2022 lab4files
drwxrwxr-x 2 rrventura rrventura 76K Mar 14 18:43 logs
                                          7 18:41 movies
drwxrwxr-x 2 rrventura rrventura 4.0K Mar
drwxr-xr-x 2 rryentura rrventura 4.0K Feb 13 23:03 Music
                                   62 Mar 14 18:56 newFile
rw-rw-r-- 2 rrventura rrventura
                                    0 Mar 14 18:17 pictures
-rw-rw-r-- 1/rrventura rrventura
drwxr-xr-x 3 rrventura rrventura 4.0K Mar
                                          1 21:55 Pictures
drwxr-xr-x 2 rrventura rrventura 4.0K Feb 13 23:03 Public
drwx----- 5 rrventura rrventura 4.0K Feb 16 21:12 snap
drwxr-xr-x 2 rrventura rrventura 4.0K Feb 13 23:03 Templates
drwxrwxr-x 3 rrventura rrventura 4.0K Mar
                                          7 18:58 tesxt
drwxr-xr-x 2 rrventura rrventura 4.0K Feb 13 23:03 Videos
rrventura@cis106:~$ ls -lgG -full-time~
ls: invalid option -- '-'
Try 'ls --help' for more information.
rrventura@cis106:~$
```

The Linux File file system directories and their purpose:





All the commands for navigating the filesystem

Command	What it does	Syntax	Example
pwd	prints current directory	pwd	'pwd'
cd	description here	syntax here	'example here'
ls	description here	syntax here	'example here'

Basic terminology

- File system: the way files are stored and organized.
- **Current directory:** the directory where you are at moment is called the current working directory or present working directory.
- **parent directory:** you are always working inside a particular directory and you can move forward to a subdirectory or backwards to the previous directory.
- the difference between your home directory and the home directory: your home directory is everything come under the roots directory and the home directory is the home directory contains a particular user's data.
- pathname: In a filesystem every files has a pathname which indicates the location of the in the filesystem (like an address)
- **relative path:** the location of a file starting from the current working directory or a directly that is located inside the current working directory.
- absolute path: The location of a file starting a the root of the files system.