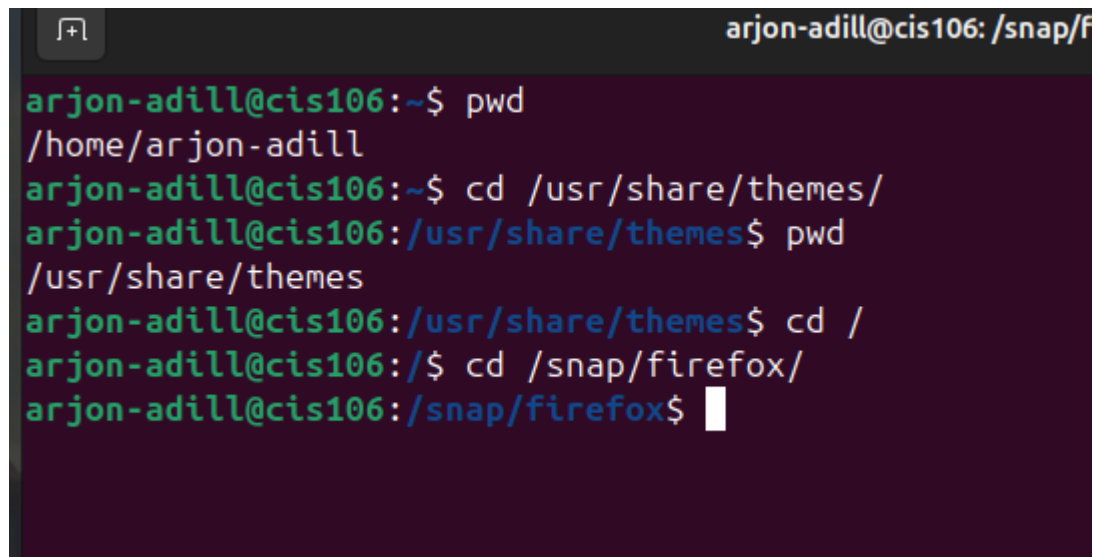


# Lab 4

---

## Question 1

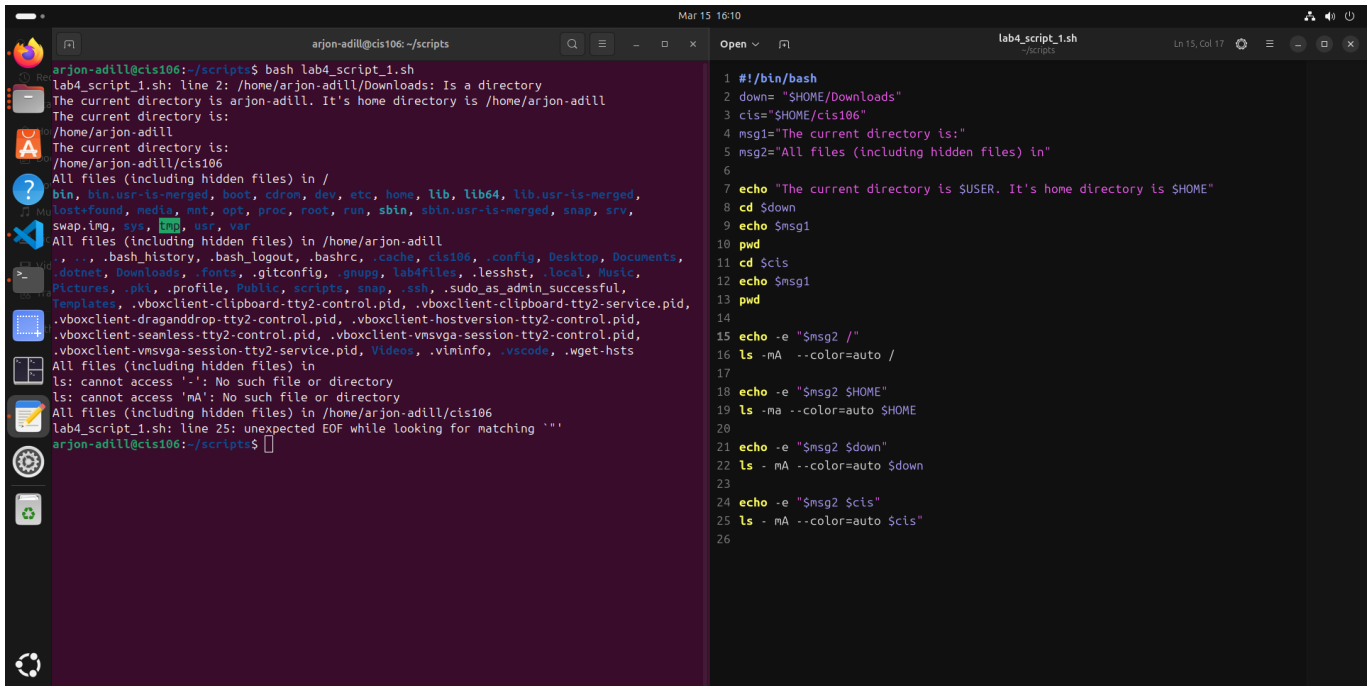
A terminal window with a dark background and light-colored text. The window title is 'arjon-adill@cis106: /snap/f'. The terminal shows a series of commands and their outputs: 'pwd' returns '/home/arjon-adill', 'cd /usr/share/themes/' changes the directory, 'pwd' returns '/usr/share/themes', 'cd /' changes to the root directory, and 'cd /snap/firefox/' changes to the /snap/firefox/ directory. The prompt is currently '/snap/firefox\$' with a cursor.

```
arjon-adill@cis106:~$ pwd
/home/arjon-adill
arjon-adill@cis106:~$ cd /usr/share/themes/
arjon-adill@cis106:/usr/share/themes$ pwd
/usr/share/themes
arjon-adill@cis106:/usr/share/themes$ cd /
arjon-adill@cis106:/$ cd /snap/firefox/
arjon-adill@cis106:/snap/firefox$
```

## Question 2

```
arjon-adill@cis106: ~/lab4files x arjon-adill@cis106: ~/lab4files x
arjon-adill@cis106:~/Documents$ pwd
/home/arjon-adill/Documents
arjon-adill@cis106:~/Documents$ cd /usr/share/
arjon-adill@cis106:/usr/share$ ls /home/arjon-adill/cis106/labs/lab4/lab4files/
countries.json  document.docx  helloWorld.c  sample.xls  Ubuntu.pdf
csvfile.csv     globe.avi      Linux.pdf     Tux.png     website.html
arjon-adill@cis106:/usr/share$ cd ~/lab4files
arjon-adill@cis106:~/lab4files$ ls -lh
total 6.5M
-rw-rw-r-- 1 arjon-adill arjon-adill 20K Feb 22 2022 countries.json
-rw-rw-r-- 1 arjon-adill arjon-adill 278K Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 arjon-adill arjon-adill 747K Feb 22 2022 document.docx
-rw-rw-r-- 1 arjon-adill arjon-adill 726K Feb 22 2022 globe.avi
-rw-rw-r-- 1 arjon-adill arjon-adill 76 Feb 22 2022 helloWorld.c
-rw-rw-r-- 1 arjon-adill arjon-adill 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 arjon-adill arjon-adill 8.5K Feb 22 2022 sample.xls
-rw-rw-r-- 1 arjon-adill arjon-adill 42K Feb 22 2022 Tux.png
-rw-rw-r-- 1 arjon-adill arjon-adill 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 arjon-adill arjon-adill 135K Feb 22 2022 website.html
arjon-adill@cis106:~/lab4files$ ls -lhs
total 6.5M
-rw-rw-r-- 1 arjon-adill arjon-adill 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 arjon-adill arjon-adill 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 arjon-adill arjon-adill 747K Feb 22 2022 document.docx
-rw-rw-r-- 1 arjon-adill arjon-adill 726K Feb 22 2022 globe.avi
-rw-rw-r-- 1 arjon-adill arjon-adill 278K Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 arjon-adill arjon-adill 135K Feb 22 2022 website.html
-rw-rw-r-- 1 arjon-adill arjon-adill 42K Feb 22 2022 Tux.png
-rw-rw-r-- 1 arjon-adill arjon-adill 20K Feb 22 2022 countries.json
-rw-r--r-- 1 arjon-adill arjon-adill 9.5K Mar 15 14:52 ort
-rw-rw-r-- 1 arjon-adill arjon-adill 8.5K Feb 22 2022 sample.xls
-rw-rw-r-- 1 arjon-adill arjon-adill 76 Feb 22 2022 helloWorld.c
arjon-adill@cis106:~/lab4files$
```

### Question 3



```

arjon-adill@cis106: ~/scripts
arjon-adill@cis106: ~/scripts$ bash lab4_script_1.sh
lab4_script_1.sh: line 2: /home/arjon-adill/Downloads: Is a directory
The current directory is arjon-adill. It's home directory is /home/arjon-adill
The current directory is:
/home/arjon-adill
The current directory is:
/home/arjon-adill/cis106
All files (including hidden files) in /
bin, bin.usr-is-merged, boot, cdrom, dev, etc, home, lib, lib64, lib.usr-is-merged,
lost+found, media, mnt, opt, proc, root, run, sbin, sbin.usr-is-merged, snap, srv,
swap.img, sys, usr, usr.var
All files (including hidden files) in /home/arjon-adill
., .bash_history, .bash_logout, .bashrc, .cache, cis106, .config, Desktop, Documents,
.dotnet, Downloads, .fonts, .gitconfig, .gnupg, lab4files, .lessht, .local, Music,
Pictures, .pkg, .profile, Public, scripts, snap, .ssh, .sudo_as_admin_successful,
Templates, .vboxclient-clipboard-tty2-control.pid, .vboxclient-clipboard-tty2-service.pid,
.vboxclient-draganddrop-tty2-control.pid, .vboxclient-hostversion-tty2-control.pid,
.vboxclient-seamless-tty2-control.pid, .vboxclient-vmsvga-session-tty2-control.pid,
.vboxclient-vmsvga-session-tty2-service.pid, Videos, .viminfo, .vscode, .wget-hsts
All files (including hidden files) in
ls: cannot access '.': No such file or directory
ls: cannot access 'mA': No such file or directory
All files (including hidden files) in /home/arjon-adill/cis106
lab4_script_1.sh: line 25: unexpected EOF while looking for matching `"'
arjon-adill@cis106:~/scripts$

```

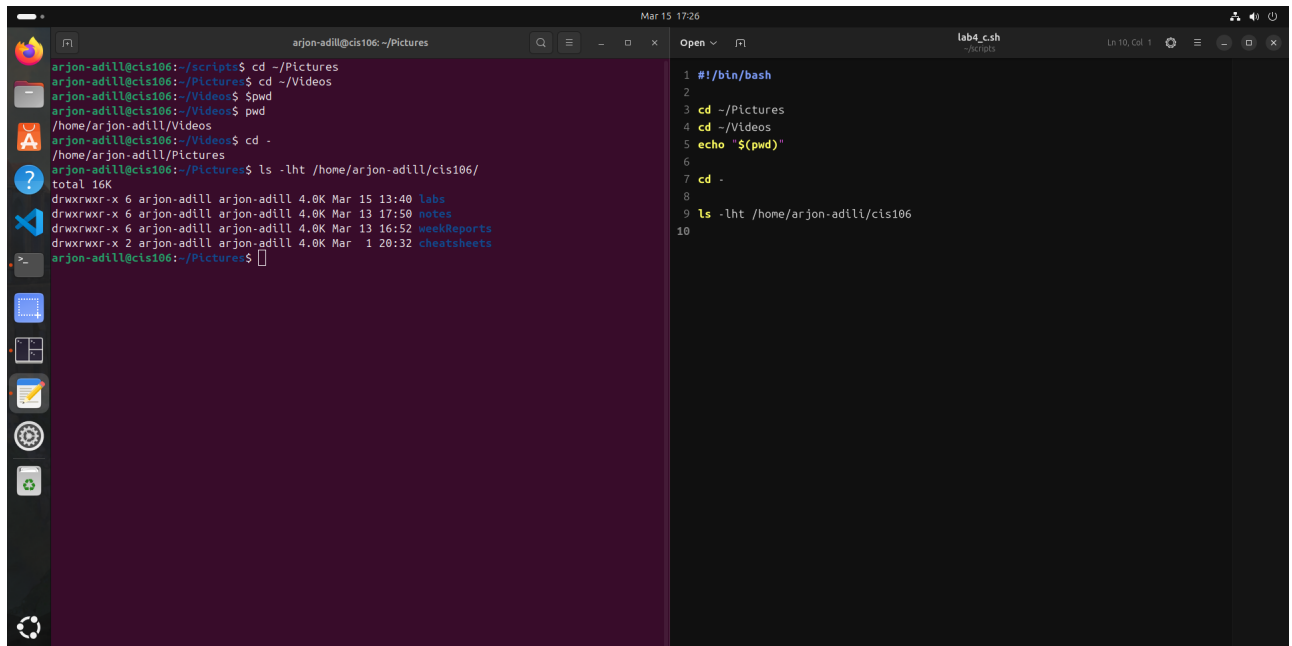
```

1 #!/bin/bash
2 down= "$HOME/Downloads"
3 cis="$HOME/cis106"
4 msg1="The current directory is:"
5 msg2="All files (including hidden files) in"
6
7 echo "The current directory is $USER. It's home directory is $HOME"
8 cd $down
9 echo $msg1
10 pwd
11 cd $cis
12 echo $msg1
13 pwd
14
15 echo -e "$msg2 /"
16 ls -mA --color=auto /
17
18 echo -e "$msg2 $HOME"
19 ls -ma --color=auto $HOME
20
21 echo -e "$msg2 $down"
22 ls - mA --color=auto $down
23
24 echo -e "$msg2 $cis"
25 ls - mA --color=auto $cis
26

```

## Question 4 (challenge)

- [Script Source Code](#)



```

arjon-adill@cis106: ~/Pictures
arjon-adill@cis106:~/Pictures$ cd ~/Pictures
arjon-adill@cis106:~/Pictures$ cd ~/Videos
arjon-adill@cis106:~/Videos$ pwd
arjon-adill@cis106:~/Videos$ cd -
/home/arjon-adill/Pictures
arjon-adill@cis106:~/Pictures$ ls -lht /home/arjon-adill/cis106/
total 16K
drwxrwxr-x 6 arjon-adill arjon-adill 4.0K Mar 15 13:40 labs
drwxrwxr-x 6 arjon-adill arjon-adill 4.0K Mar 13 17:59 notes
drwxrwxr-x 6 arjon-adill arjon-adill 4.0K Mar 13 16:52 weekReports
drwxrwxr-x 2 arjon-adill arjon-adill 4.0K Mar 1 20:32 cheatsheets
arjon-adill@cis106:~/Pictures$

```

```

1 #!/bin/bash
2
3 cd ~/Pictures
4 cd ~/Videos
5 echo "$(pwd)"
6
7 cd -
8
9 ls -lht /home/arjon-adill/cis106
10

```