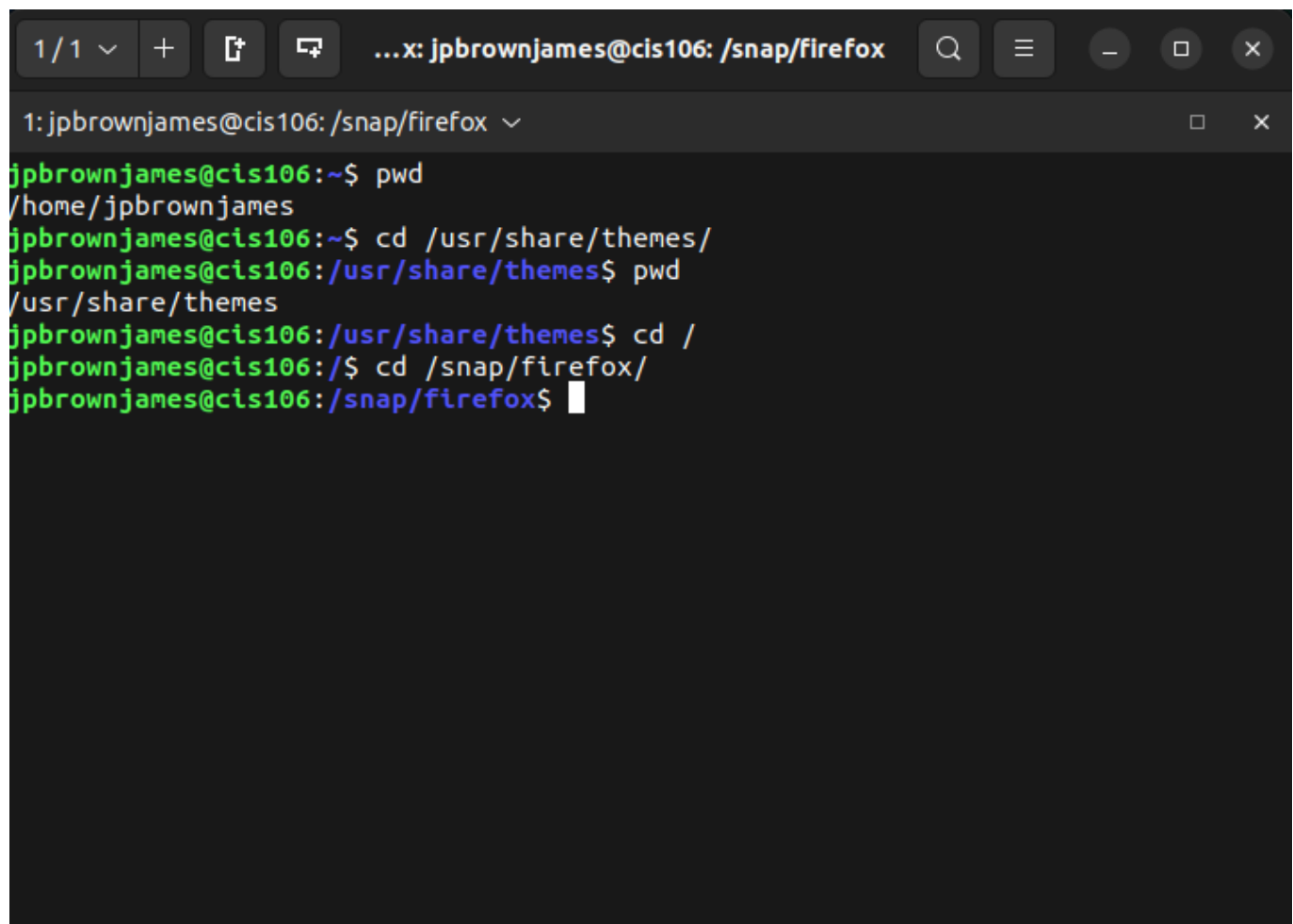
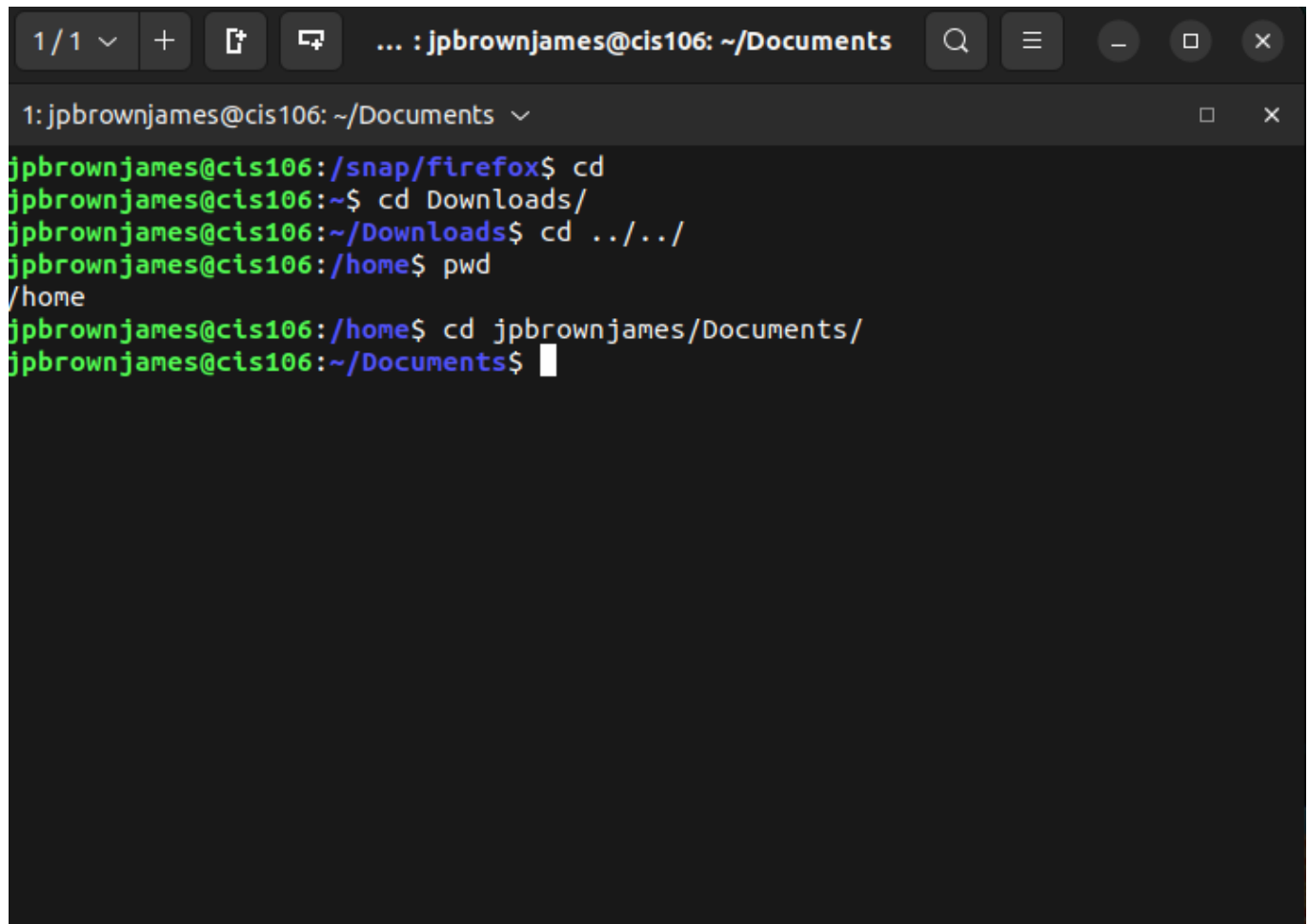


Lab 4 Submission

Question 1



```
1 / 1  +  ...x: jpbrownjames@cis106: /snap/firefox  🔍  ≡  -  □  ×  
1: jpbrownjames@cis106: /snap/firefox  ▢  ×  
jpbrownjames@cis106:~$ pwd  
/home/jpbrownjames  
jpbrownjames@cis106:~$ cd /usr/share/themes/  
jpbrownjames@cis106:/usr/share/themes$ pwd  
/usr/share/themes  
jpbrownjames@cis106:/usr/share/themes$ cd /  
jpbrownjames@cis106:/$ cd /snap/firefox/  
jpbrownjames@cis106:/snap/firefox$
```



```
1 / 1  +  ... : jpbrownjames@cis106: ~/Documents  🔍  ☰  -  □  ×  
1: jpbrownjames@cis106: ~/Documents  ▾  □  ×  
jpbrownjames@cis106:/snap/firefox$ cd  
jpbrownjames@cis106:~$ cd Downloads/  
jpbrownjames@cis106:~/Downloads$ cd ../../  
jpbrownjames@cis106:/home$ pwd  
/home  
jpbrownjames@cis106:/home$ cd jpbrownjames/Documents/  
jpbrownjames@cis106:~/Documents$
```

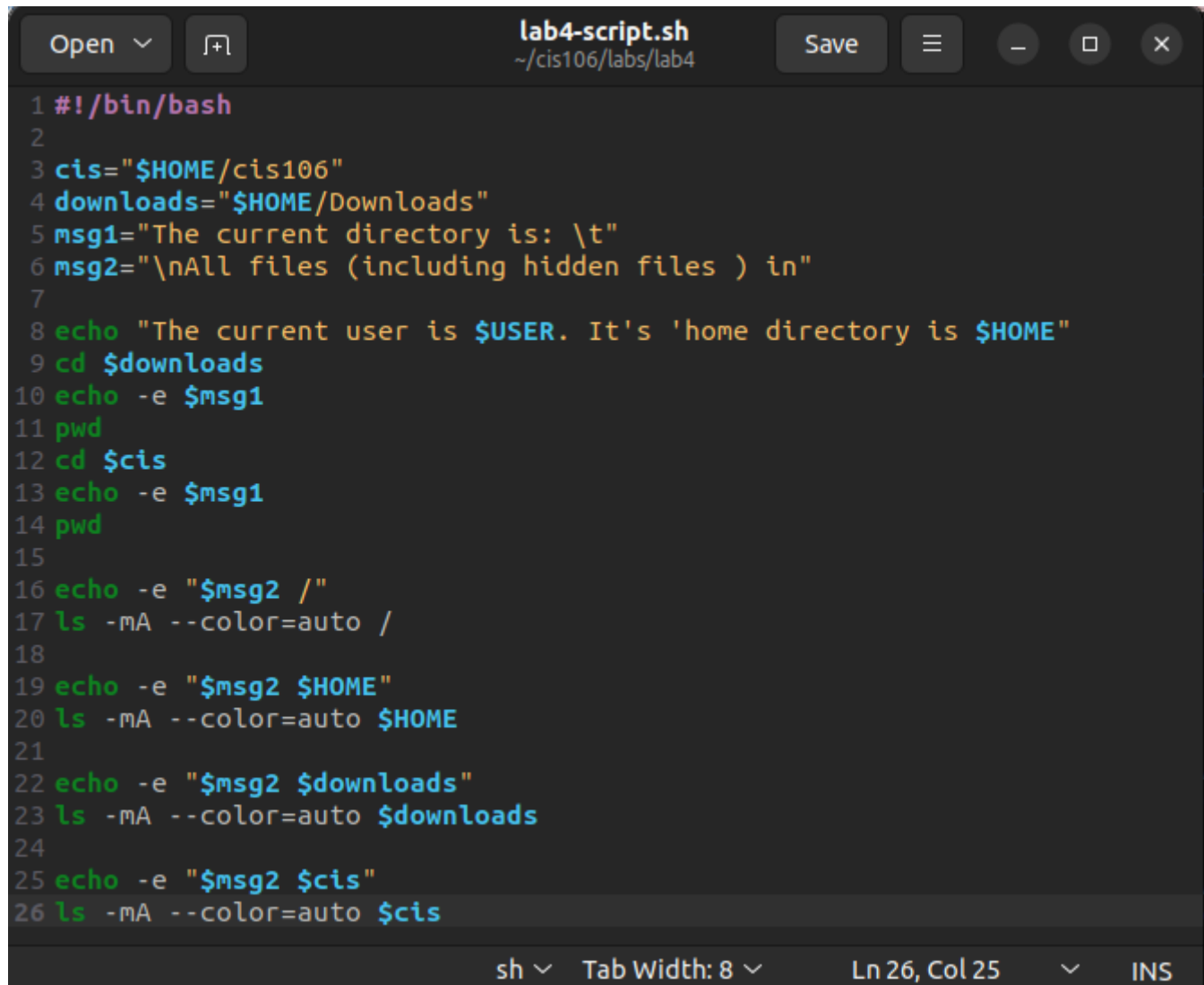
Question 2

```

1/1  +  [ ]  [ ]
1:jpbrownjames@cis106: ~/lab4files  v
jpbrownjames@cis106:/usr/share$ ls ~/lab4files/
countries.json  helloWorld.c  Ubuntu.pdf
csvfile.csv    Linux.pdf    website.html
document.docx  sample.xls
globe.avi      Tux.png
jpbrownjames@cis106:/usr/share$ cd ~/lab4files/
jpbrownjames@cis106:~/lab4files$ ls -lh
total 6.5M
-rw-rw-r-- 1 jpbrownjames jpbrownjames 20K Feb 22 2022 countries.json
-rw-rw-r-- 1 jpbrownjames jpbrownjames 278K Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 jpbrownjames jpbrownjames 747K Feb 22 2022 document.docx
-rw-rw-r-- 1 jpbrownjames jpbrownjames 726K Feb 22 2022 globe.avi
-rw-rw-r-- 1 jpbrownjames jpbrownjames 76 Feb 22 2022 helloWorld.c
-rw-rw-r-- 1 jpbrownjames jpbrownjames 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 jpbrownjames jpbrownjames 8.5K Feb 22 2022 sample.xls
-rw-rw-r-- 1 jpbrownjames jpbrownjames 42K Feb 22 2022 Tux.png
-rw-rw-r-- 1 jpbrownjames jpbrownjames 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 jpbrownjames jpbrownjames 135K Feb 22 2022 website.html
jpbrownjames@cis106:~/lab4files$ ls -lhs
total 6.5M
-rw-rw-r-- 1 jpbrownjames jpbrownjames 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 jpbrownjames jpbrownjames 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 jpbrownjames jpbrownjames 747K Feb 22 2022 document.docx
-rw-rw-r-- 1 jpbrownjames jpbrownjames 726K Feb 22 2022 globe.avi
-rw-rw-r-- 1 jpbrownjames jpbrownjames 278K Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 jpbrownjames jpbrownjames 135K Feb 22 2022 website.html
-rw-rw-r-- 1 jpbrownjames jpbrownjames 42K Feb 22 2022 Tux.png
-rw-rw-r-- 1 jpbrownjames jpbrownjames 20K Feb 22 2022 countries.json
-rw-rw-r-- 1 jpbrownjames jpbrownjames 8.5K Feb 22 2022 sample.xls
-rw-rw-r-- 1 jpbrownjames jpbrownjames 76 Feb 22 2022 helloWorld.c
jpbrownjames@cis106:~/lab4files$ ls -lhSGi
total 6.5M
1860425 -rw-rw-r-- 1 jpbrownjames 2.5M Feb 22 2022 Linux.pdf
1861705 -rw-rw-r-- 1 jpbrownjames 2.1M Feb 22 2022 Ubuntu.pdf
1861708 -rw-rw-r-- 1 jpbrownjames 747K Feb 22 2022 document.docx
1861709 -rw-rw-r-- 1 jpbrownjames 726K Feb 22 2022 globe.avi
1861707 -rw-rw-r-- 1 jpbrownjames 278K Feb 22 2022 csvfile.csv
1861712 -rw-rw-r-- 1 jpbrownjames 135K Feb 22 2022 website.html
1861701 -rw-rw-r-- 1 jpbrownjames 42K Feb 22 2022 Tux.png
1861706 -rw-rw-r-- 1 jpbrownjames 20K Feb 22 2022 countries.json
1861711 -rw-rw-r-- 1 jpbrownjames 8.5K Feb 22 2022 sample.xls
1861710 -rw-rw-r-- 1 jpbrownjames 76 Feb 22 2022 helloWorld.c
jpbrownjames@cis106:~/lab4files$ ls -Xr
sample.xls  countries.json  helloWorld.c
Tux.png    website.html    globe.avi
Ubuntu.pdf document.docx
Linux.pdf  csvfile.csv
jpbrownjames@cis106:~/lab4files$

```

Question 3



```
1 #!/bin/bash
2
3 cis="$HOME/cis106"
4 downloads="$HOME/Downloads"
5 msg1="The current directory is: \t"
6 msg2="\nAll files (including hidden files ) in"
7
8 echo "The current user is $USER. It's 'home directory is $HOME"
9 cd $downloads
10 echo -e $msg1
11 pwd
12 cd $cis
13 echo -e $msg1
14 pwd
15
16 echo -e "$msg2 /"
17 ls -mA --color=auto /
18
19 echo -e "$msg2 $HOME"
20 ls -mA --color=auto $HOME
21
22 echo -e "$msg2 $downloads"
23 ls -mA --color=auto $downloads
24
25 echo -e "$msg2 $cis"
26 ls -mA --color=auto $cis
```

sh ▾ Tab Width: 8 ▾ Ln 26, Col 25 ▾ INS

```
1 / 1 + [T] [R] Tilix: jpbrownjames@cis106: ~
1:jpbrownjames@cis106: ~
jpbrownjames@cis106:~$ bash cis106/labs/lab4/lab4-script.sh
The current user is jpbrownjames. It's 'home directory is /home/jpbrownjames
The current directory is:
/home/jpbrownjames/Downloads
The current directory is:
/home/jpbrownjames/cis106

All files (including hidden files ) in /
bin, boot, cdrom, dev, etc, home, lib, lib32, lib64, libx32, lost+found, media, mnt, opt, proc, root, run,/sbin,
snap, srv, swapfile, sys, tmp, usr, var

All files (including hidden files ) in /home/jpbrownjames
.bash_history, .bash_logout, .bashrc, .bastetrc, .cache, cis106, .config, Desktop, Documents, .dotnet,
Downloads, 'extra credit', .fontconfig, .gitconfig, .gnupg, lab4files, .lessht, .local, .mozilla, Music,
Pictures, .pki, practicels, practicels.tar.xz, .profile, Public, scripts, snap, .ssh, .sudo_as_admin_successful,
Templates, .thunderbird, .vboxclient-clipboard-tty2-control.pid, .vboxclient-clipboard-tty2-service.pid,
.vboxclient-draganddrop-tty2-control.pid, .vboxclient-draganddrop-tty2-service.pid,
.vboxclient-hostversion-tty2-control.pid, .vboxclient-seamless-tty2-control.pid,
.vboxclient-seamless-tty2-service.pid, .vboxclient-vmvga-session-tty2-control.pid,
.vboxclient-vmvga-session-tty2-service.pid, Videos, .vscode, wildcardpractice

All files (including hidden files ) in /home/jpbrownjames/Downloads
code_1.86.2-1707854558_amd64.deb, Food, Games, game.txt, lab4files.zip,
'MANAGING FILES AND DIRECTORIES CHEAT SHEET.png'

All files (including hidden files ) in /home/jpbrownjames/cis106
cheatSheets, finalProject, .git, labs, notes, weekReports
jpbrownjames@cis106:~$
```

Question 4

```
1/1  +  [ ]  [ ]  Tilix: jpbrownjames@cis106: ~  [ ]  [ ]  [ ]  [ ]  [ ]
1: jpbrownjames@cis106: ~  [ ]  [ ]
jpbrownjames@cis106:~$ bash cis106/labs/lab4/lab4-challenge.sh
Changing to:      /home/jpbrownjames/Pictures
Changing to:      /home/jpbrownjames/Videos
Current PWD:      /home/jpbrownjames/Videos
Previous PWD:     /home/jpbrownjames/Pictures

Long list of /home/jpbrownjames/cis106
total 20K
drwxrwxr-x 2 jpbrownjames jpbrownjames 4.0K 02/28/24 cheatSheets
drwxrwxr-x 2 jpbrownjames jpbrownjames 4.0K 02/09/24 finalProject
drwxrwxr-x 6 jpbrownjames jpbrownjames 4.0K 03/18/24 labs
drwxrwxr-x 4 jpbrownjames jpbrownjames 4.0K 03/15/24 notes
drwxrwxr-x 6 jpbrownjames jpbrownjames 4.0K 03/15/24 weekReports
jpbrownjames@cis106:~$
```