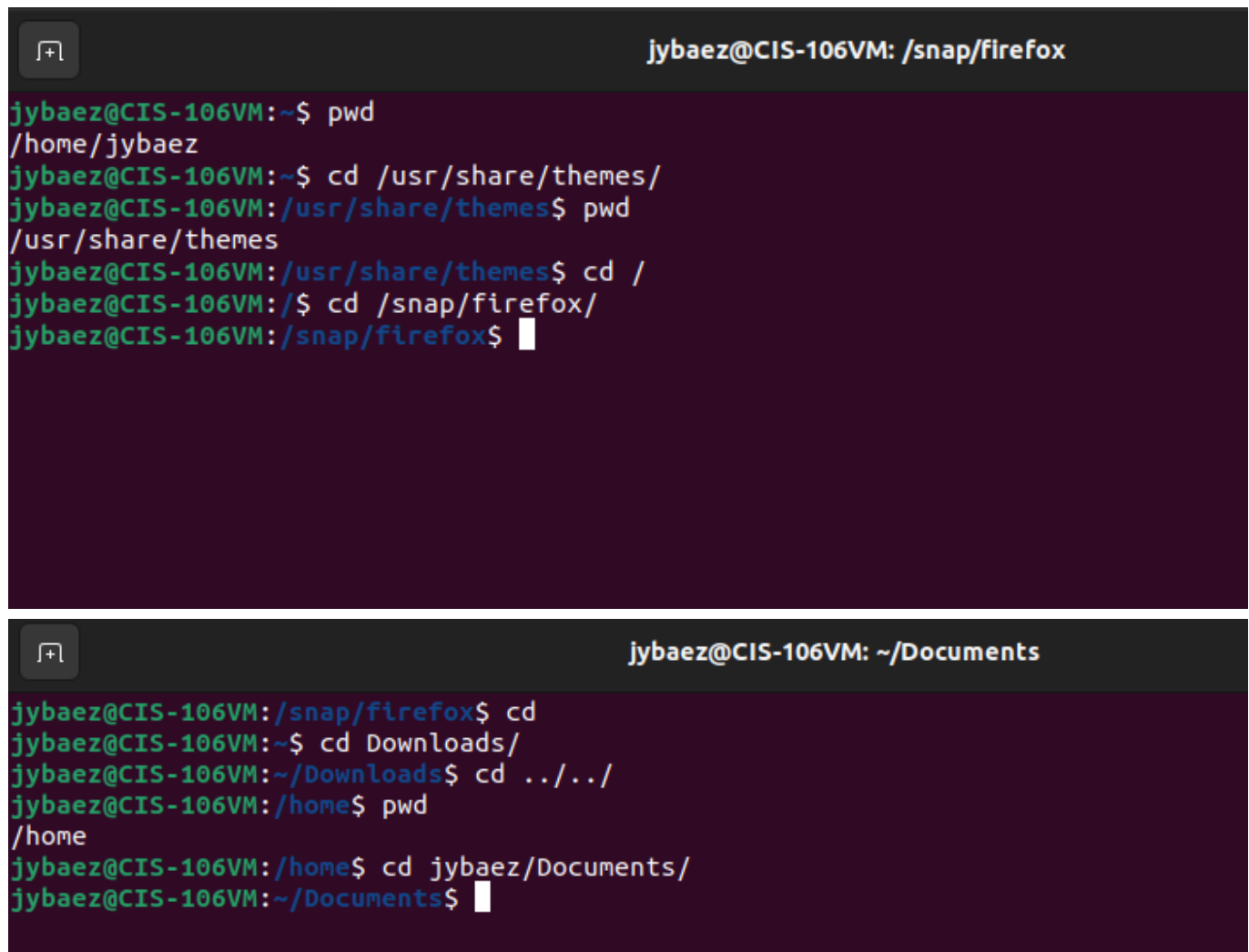


Lab 4 The linux FS

Question 1



The image shows two terminal windows from a Linux VM. The first window shows the user navigating from their home directory to /usr/share/themes and then to /snap/firefox. The second window shows the user navigating from /snap/firefox back to their home directory, then to the Downloads folder, and finally to the Documents folder.

```
jybaez@CIS-106VM: /snap/firefox

jybaez@CIS-106VM:~$ pwd
/home/jybaez
jybaez@CIS-106VM:~$ cd /usr/share/themes/
jybaez@CIS-106VM:/usr/share/themes$ pwd
/usr/share/themes
jybaez@CIS-106VM:/usr/share/themes$ cd /
jybaez@CIS-106VM:/$ cd /snap/firefox/
jybaez@CIS-106VM:/snap/firefox$

jybaez@CIS-106VM: ~/Documents

jybaez@CIS-106VM:/snap/firefox$ cd
jybaez@CIS-106VM:~$ cd Downloads/
jybaez@CIS-106VM:~/Downloads$ cd ../../
jybaez@CIS-106VM:/home$ pwd
/home
jybaez@CIS-106VM:/home$ cd jybaez/Documents/
jybaez@CIS-106VM:~/Documents$
```

Question 2

```

jybaez@CIS-106VM:~/Documents$ cd /usr/share/
jybaez@CIS-106VM:/usr/share$ ls /home/jybaez/lab4files/
countries.json  document.docx  helloWorld.c  sample.xls  Ubuntu.pdf
csvfile.csv     globe.avi      Linux.pdf     Tux.png     website.html
jybaez@CIS-106VM:/usr/share$ cd ~/lab4files/
jybaez@CIS-106VM:~/lab4files$ ls -l
total 6580
-rw-rw-r-- 1 jybaez jybaez 20471 Feb 22 2022 countries.json
-rw-rw-r-- 1 jybaez jybaez 284042 Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 jybaez jybaez 764176 Feb 22 2022 document.docx
-rw-rw-r-- 1 jybaez jybaez 742478 Feb 22 2022 globe.avi
-rw-rw-r-- 1 jybaez jybaez 76 Feb 22 2022 helloWorld.c
-rw-rw-r-- 1 jybaez jybaez 2600138 Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 jybaez jybaez 8704 Feb 22 2022 sample.xls
-rw-rw-r-- 1 jybaez jybaez 42777 Feb 22 2022 Tux.png
-rw-rw-r-- 1 jybaez jybaez 2114053 Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 jybaez jybaez 137453 Feb 22 2022 website.html
jybaez@CIS-106VM:~/lab4files$ ls -lh
total 6.5M
-rw-rw-r-- 1 jybaez jybaez 20K Feb 22 2022 countries.json
-rw-rw-r-- 1 jybaez jybaez 278K Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 jybaez jybaez 747K Feb 22 2022 document.docx
-rw-rw-r-- 1 jybaez jybaez 726K Feb 22 2022 globe.avi
-rw-rw-r-- 1 jybaez jybaez 76 Feb 22 2022 helloWorld.c
-rw-rw-r-- 1 jybaez jybaez 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 jybaez jybaez 8.5K Feb 22 2022 sample.xls
-rw-rw-r-- 1 jybaez jybaez 42K Feb 22 2022 Tux.png
-rw-rw-r-- 1 jybaez jybaez 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 jybaez jybaez 135K Feb 22 2022 website.html
jybaez@CIS-106VM:~/lab4files$ ls -lhs
total 6.5M
-rw-rw-r-- 1 jybaez jybaez 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 jybaez jybaez 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 jybaez jybaez 747K Feb 22 2022 document.docx
-rw-rw-r-- 1 jybaez jybaez 726K Feb 22 2022 globe.avi
-rw-rw-r-- 1 jybaez jybaez 278K Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 jybaez jybaez 135K Feb 22 2022 website.html
-rw-rw-r-- 1 jybaez jybaez 42K Feb 22 2022 Tux.png
-rw-rw-r-- 1 jybaez jybaez 20K Feb 22 2022 countries.json
-rw-rw-r-- 1 jybaez jybaez 8.5K Feb 22 2022 sample.xls
-rw-rw-r-- 1 jybaez jybaez 76 Feb 22 2022 helloWorld.c
jybaez@CIS-106VM:~/lab4files$ ls -lhSg
total 6.5M
-rw-rw-r-- 1 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 747K Feb 22 2022 document.docx
-rw-rw-r-- 1 726K Feb 22 2022 globe.avi
-rw-rw-r-- 1 278K Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 135K Feb 22 2022 website.html
-rw-rw-r-- 1 42K Feb 22 2022 Tux.png
-rw-rw-r-- 1 20K Feb 22 2022 countries.json
-rw-rw-r-- 1 8.5K Feb 22 2022 sample.xls
-rw-rw-r-- 1 76 Feb 22 2022 helloWorld.c
jybaez@CIS-106VM:~/lab4files$ ls -lhSgI
total 6.5M
2111144 -rw-rw-r-- 1 2.5M Feb 22 2022 Linux.pdf
2111146 -rw-rw-r-- 1 2.1M Feb 22 2022 Ubuntu.pdf
2111149 -rw-rw-r-- 1 747K Feb 22 2022 document.docx
2111150 -rw-rw-r-- 1 726K Feb 22 2022 globe.avi
2111148 -rw-rw-r-- 1 278K Feb 22 2022 csvfile.csv
2111153 -rw-rw-r-- 1 135K Feb 22 2022 website.html
2111145 -rw-rw-r-- 1 42K Feb 22 2022 Tux.png
2111147 -rw-rw-r-- 1 20K Feb 22 2022 countries.json
2111152 -rw-rw-r-- 1 8.5K Feb 22 2022 sample.xls
2111151 -rw-rw-r-- 1 76 Feb 22 2022 helloWorld.c
jybaez@CIS-106VM:~/lab4files$ ls -Xr
sample.xls Tux.png Ubuntu.pdf Linux.pdf countries.json website.html document.docx csvfile.csv helloWorld.c globe.avi
jybaez@CIS-106VM:~/lab4files$

```

Question 4

```

1/1 ~ + ↵
Tilix: jybaez@CIS-106VM: /usr/share

jybaez@CIS-106VM:/$ pwd
jybaez@CIS-106VM:/$ cd usr/
jybaez@CIS-106VM:/usr$ cd /proc/sys/net/ipv4
jybaez@CIS-106VM:/proc/sys/net/ipv4$ cd -
/usr
jybaez@CIS-106VM:/usr$ ls share/backgrounds/
Blue_flower_by_Elena_Stravoravdi.jpg
canvas_by_roytanck.jpg
Cherry_Tree_in_Lakones_by_elenastravoravdi.jpg
contest
DSC2943_by_kcpru.jpg
Jammy-Jellyfish_WP_4096x2304_Grey.png
jj_dark_by_Hiking93.jpg
jj_light_by_Hiking93.jpg
Mirror_by_Uday_Nakade.jpg
Optical_Fibers_in_Dark_by_Elena_Stravoravdi.jpg
ubuntu2_by_arman1992.jpg
ubuntu_by_arman1992.jpg
ubuntu-default-greyscale-wallpaper.png
warty-final-ubuntu.png
jybaez@CIS-106VM:/usr$ cd
jybaez@CIS-106VM:~$ ls Cis106S23
Labs 'Week Reports'
jybaez@CIS-106VM:~$ cd /
jybaez@CIS-106VM:/$ cd home
jybaez@CIS-106VM:/home$ ls jybaez/Downloads/
'Absolute Path VS Relative Path Cheat sheet.png'
f1
games
lab4files.zip
logs
newfile
Shoes
'The LS command Cheat Sheet.png'
video
whatisubuntu
whatisubuntu.zip
jybaez@CIS-106VM:/home$ cd /dev/disk/by-id
jybaez@CIS-106VM:/dev/disk/by-id$ ls -la
total 0
drwxr-xr-x 2 root root 140 Mar 18 20:04 .
drwxr-xr-x 7 root root 140 Mar 18 20:03 ..
lrwxrwxrwx 1 root root 9 Mar 18 20:04 ata-VBOX_CD-ROM_VB2-01700376 -> ../../sr0
lrwxrwxrwx 1 root root 9 Mar 18 20:04 ata-VBOX_HARDDISK_VBa6347921-915a5ef4 -> ../../sda
lrwxrwxrwx 1 root root 10 Mar 18 20:04 ata-VBOX_HARDDISK_VBa6347921-915a5ef4-part1 -> ../../sda1
lrwxrwxrwx 1 root root 10 Mar 18 20:04 ata-VBOX_HARDDISK_VBa6347921-915a5ef4-part2 -> ../../sda2
lrwxrwxrwx 1 root root 10 Mar 18 20:04 ata-VBOX_HARDDISK_VBa6347921-915a5ef4-part3 -> ../../sda3

jybaez@CIS-106VM:/usr/share$ cd themes/
jybaez@CIS-106VM:/usr/share/themes$ ls -t
Yaru
Yaru-bark
Yaru-bark-dark
Yaru-blue
Yaru-blue-dark
Yaru-dark
Yaru-magenta
Yaru-magenta-dark
Yaru-olive
Yaru-olive-dark
Yaru-prussiangreen
Yaru-prussiangreen-dark
Yaru-purple
Yaru-purple-dark
Yaru-red
Yaru-red-dark
Yaru-sage
Yaru-sage-dark
Yaru-viridian
Yaru-viridian-dark
Yaru-xhdp
Yaru-dark-hdpi
Yaru-dark-xhdp
Yaru-hdpi
Default
Emacs
Raleigh
Adwaita
Adwaita-dark
HighContrast
jybaez@CIS-106VM:/usr/share/themes$ cd ../
jybaez@CIS-106VM:/usr/share$ ls -X
accountsservice
aclocal
acpi-support
adduser
aisleriot
alacarte
alsa
alsa-base
alsa-card-profile
appdata
app-info
applications
appport
apps
apturl
aspell
avahi
backgrounds
base-files
base-passwd
bash-completion
binfmts
branding
brltty
bug
build-essential
ca-certificates
caffeine-indicator
catdoc
cmake

```

```
cmake
code
cogl
color
colord
common-licenses
consolefonts
console-setup
consoletrans
cowsay
cups
dbus-1
dconf
debconf
debhelper
debianutils
deepin-music
defaults
desktop-directories
dict
dictionaries-common
distro-info
djvu
dns
dnsmasq-base
doc
doc-base
dpkg
emacs
emacsens-common
enchant-2
eog
evince
evolution-data-server
figlet
file
file-roller
fish
flameshot
flatpak
fontconfig
fonts
fonts-droid-fallback
fonts-sil-abyssinica
fonts-sil-padauk
foo2qpd1
foo2zjs
fwupd
gamemode
```

Question 5

```
1/1  +  [icon] [icon]  Tilix: jybaez@CIS-106VM: ~/Downloads

jybaez@CIS-106VM:/$ cd home/
jybaez@CIS-106VM:/home$ cd jybaez/
jybaez@CIS-106VM:~$ cd Downloads/
jybaez@CIS-106VM:~/Downloads$ pwd
/home/jybaez/Downloads
jybaez@CIS-106VM:~/Downloads$ _
```

```
1/1  +  [icon] [icon]  Tilix: jybaez@CIS-106VM: ~/Documents

jybaez@CIS-106VM:/$ cd usr/share/themes/Adwaita
jybaez@CIS-106VM:/usr/share/themes/Adwaita$ cd ~/Documents/
jybaez@CIS-106VM:~/Documents$ pwd
/home/jybaez/Documents
jybaez@CIS-106VM:~/Documents$ _
```