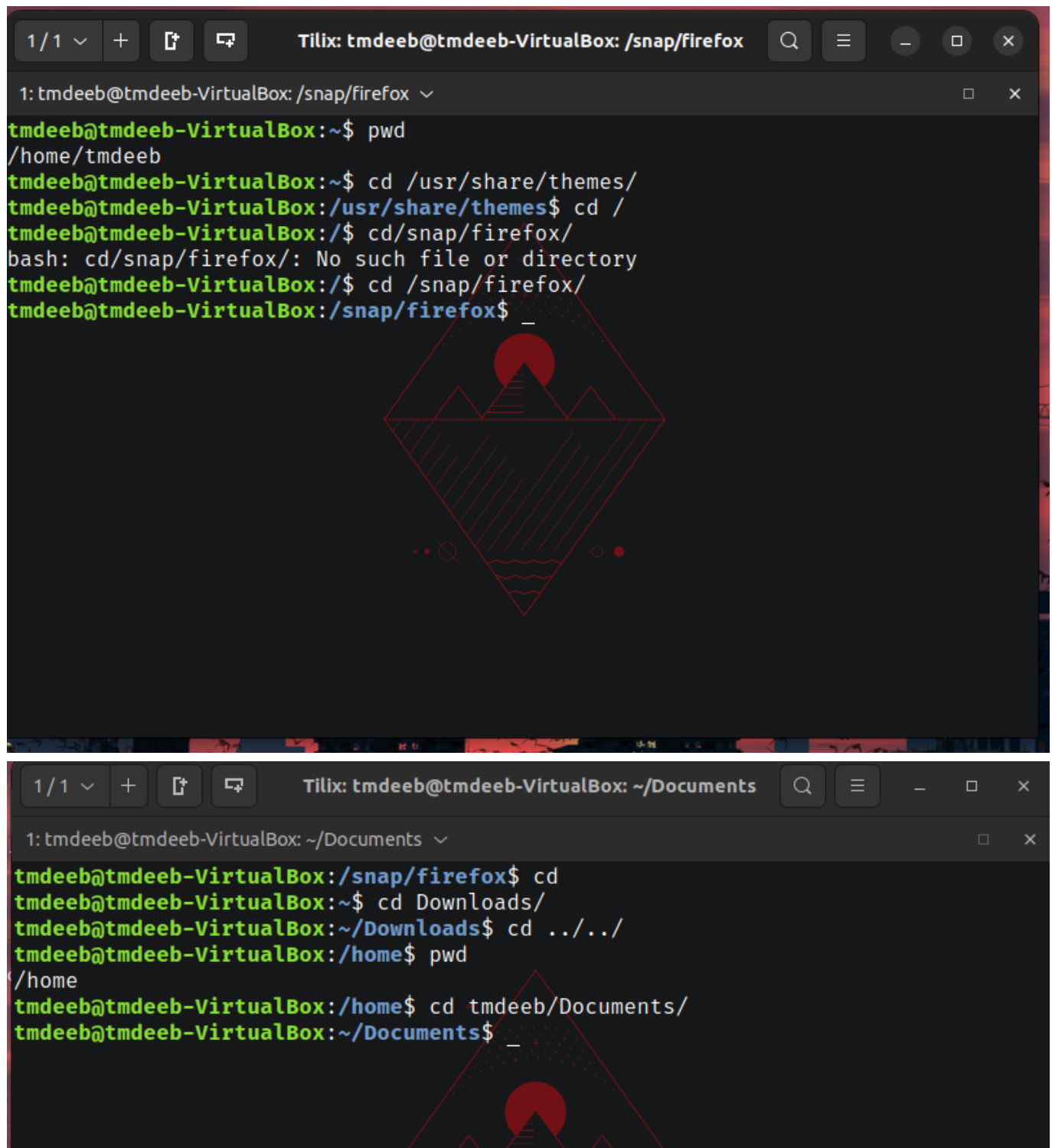


Lab4 The Linux FS

Question 1



The image shows two screenshots of a terminal window titled "Tilix: tmdeeb@tmdeeb-VirtualBox: /snap/firefox". The terminal background features a red geometric logo consisting of a diamond shape with internal lines and a circle at the top.

First Screenshot:

```
1: tmdeeb@tmdeeb-VirtualBox: /snap/firefox
tmdeeb@tmdeeb-VirtualBox:~$ pwd
/home/tmdeeb
tmdeeb@tmdeeb-VirtualBox:~$ cd /usr/share/themes/
tmdeeb@tmdeeb-VirtualBox:/usr/share/themes$ cd /
tmdeeb@tmdeeb-VirtualBox:/$ cd /snap/firefox/
bash: cd /snap/firefox/: No such file or directory
tmdeeb@tmdeeb-VirtualBox:/$ cd /snap/firefox/
tmdeeb@tmdeeb-VirtualBox:/snap/firefox$
```

Second Screenshot:

```
1: tmdeeb@tmdeeb-VirtualBox: ~/Documents
tmdeeb@tmdeeb-VirtualBox:/snap/firefox$ cd
tmdeeb@tmdeeb-VirtualBox:~$ cd Downloads/
tmdeeb@tmdeeb-VirtualBox:~/Downloads$ cd ../../
tmdeeb@tmdeeb-VirtualBox:/home$ pwd
/home
tmdeeb@tmdeeb-VirtualBox:/home$ cd tmdeeb/Documents/
tmdeeb@tmdeeb-VirtualBox:~/Documents$
```

Question 2


```

tmdeeb@tmdeeb-VirtualBox:~/Documents$ cd /usr/share/
tmdeeb@tmdeeb-VirtualBox:/usr/share$ ls /home/tmdeeb/lab4files/
countries.json  document.docx  helloWorld.c  sample.xls  Ubuntu.pdf
csvfile.csv    globe.avi      Linux.pdf     Tux.png     website.html
tmdeeb@tmdeeb-VirtualBox:/usr/share$
tmdeeb@tmdeeb-VirtualBox:/usr/share$ cd ~/lab4files/
tmdeeb@tmdeeb-VirtualBox:~/lab4files$ ls -l
total 6580
-rw-rw-r-- 1 tmdeeb tmdeeb 20471 Feb 22 2022 countries.json
-rw-rw-r-- 1 tmdeeb tmdeeb 284042 Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 tmdeeb tmdeeb 764176 Feb 22 2022 document.docx
-rw-rw-r-- 1 tmdeeb tmdeeb 742478 Feb 22 2022 globe.avi
-rw-rw-r-- 1 tmdeeb tmdeeb 76 Feb 22 2022 helloWorld.c
-rw-rw-r-- 1 tmdeeb tmdeeb 2600138 Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 tmdeeb tmdeeb 8704 Feb 22 2022 sample.xls
-rw-rw-r-- 1 tmdeeb tmdeeb 42777 Feb 22 2022 Tux.png
-rw-rw-r-- 1 tmdeeb tmdeeb 2114053 Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 tmdeeb tmdeeb 137453 Feb 22 2022 website.html
tmdeeb@tmdeeb-VirtualBox:~/lab4files$ ls -lh
total 6.5M
-rw-rw-r-- 1 tmdeeb tmdeeb 20K Feb 22 2022 countries.json
-rw-rw-r-- 1 tmdeeb tmdeeb 278K Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 tmdeeb tmdeeb 747K Feb 22 2022 document.docx
-rw-rw-r-- 1 tmdeeb tmdeeb 726K Feb 22 2022 globe.avi
-rw-rw-r-- 1 tmdeeb tmdeeb 76 Feb 22 2022 helloWorld.c
-rw-rw-r-- 1 tmdeeb tmdeeb 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 tmdeeb tmdeeb 8.5K Feb 22 2022 sample.xls
-rw-rw-r-- 1 tmdeeb tmdeeb 42K Feb 22 2022 Tux.png
-rw-rw-r-- 1 tmdeeb tmdeeb 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 tmdeeb tmdeeb 135K Feb 22 2022 website.html
tmdeeb@tmdeeb-VirtualBox:~/lab4files$ ls -lhs
total 6.5M
-rw-rw-r-- 1 tmdeeb tmdeeb 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 tmdeeb tmdeeb 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 tmdeeb tmdeeb 747K Feb 22 2022 document.docx
-rw-rw-r-- 1 tmdeeb tmdeeb 726K Feb 22 2022 globe.avi
-rw-rw-r-- 1 tmdeeb tmdeeb 278K Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 tmdeeb tmdeeb 135K Feb 22 2022 website.html
-rw-rw-r-- 1 tmdeeb tmdeeb 42K Feb 22 2022 Tux.png
-rw-rw-r-- 1 tmdeeb tmdeeb 20K Feb 22 2022 countries.json
-rw-rw-r-- 1 tmdeeb tmdeeb 8.5K Feb 22 2022 sample.xls
-rw-rw-r-- 1 tmdeeb tmdeeb 76 Feb 22 2022 helloWorld.c
tmdeeb@tmdeeb-VirtualBox:~/lab4files$ ls -lhSgG
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
tmdeeb@tmdeeb-VirtualBox:~/lab4files$ ls -lhSgGi

```

```
total 6.5M
1449530 -rw-rw-r-- 1 2.5M Feb 22 2022 Linux.pdf
1449547 -rw-rw-r-- 1 2.1M Feb 22 2022 Ubuntu.pdf
1449553 -rw-rw-r-- 1 747K Feb 22 2022 document.docx
1449555 -rw-rw-r-- 1 726K Feb 22 2022 globe.avi
1449551 -rw-rw-r-- 1 278K Feb 22 2022 csvfile.csv
1449561 -rw-rw-r-- 1 135K Feb 22 2022 website.html
1449545 -rw-rw-r-- 1 42K Feb 22 2022 Tux.png
1449549 -rw-rw-r-- 1 20K Feb 22 2022 countries.json
1449559 -rw-rw-r-- 1 8.5K Feb 22 2022 sample.xls
1449557 -rw-rw-r-- 1 76 Feb 22 2022 helloWorld.c
tmdeeb@tmdeeb-VirtualBox:~/lab4files$ ls -X
globe.avi      csvfile.csv    website.html   Linux.pdf      Tux.png
helloWorld.c   document.docx  countries.json Ubuntu.pdf     sample.xls
tmdeeb@tmdeeb-VirtualBox:~/lab4files$ ls -Xr
sample.xls     Ubuntu.pdf     countries.json document.docx   helloWorld.c
Tux.png        Linux.pdf      website.html   csvfile.csv     globe.avi
tmdeeb@tmdeeb-VirtualBox:~/lab4files$ ls -Xr1
sample.xls
Tux.png
Ubuntu.pdf
Linux.pdf
countries.json
website.html
document.docx
csvfile.csv
helloWorld.c
```

Question 4

```

Applications  Places

1/1  +  [?]  [?]  Tilix: tmdeeb@

1: tmdeeb@tmdeeb-VirtualBox: /dev/disk/by-id  v

tmdeeb@tmdeeb-VirtualBox:~$ cd /usr/share/icons/default/
tmdeeb@tmdeeb-VirtualBox:/usr/share/icons/default$ cd /proc/sys/ipv4/
bash: cd: /proc/sys/ipv4/: No such file or directory
tmdeeb@tmdeeb-VirtualBox:/usr/share/icons/default$ cd /proc/sys
sys/      sysvipc/
tmdeeb@tmdeeb-VirtualBox:/usr/share/icons/default$ cd /proc/sys/net/ipv4
tmdeeb@tmdeeb-VirtualBox:/proc/sys/net/ipv4$ cd -
/usr/share/icons/default
tmdeeb@tmdeeb-VirtualBox:/usr/share/icons/default$ ls /usr/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
tmdeeb@tmdeeb-VirtualBox:/usr/share/icons/default$ ls /home/tmdeeb/cis106
CheatSheets  Lab4.1png  labs  'Weekly Reports'
tmdeeb@tmdeeb-VirtualBox:/usr/share/icons/default$ cd /home
tmdeeb@tmdeeb-VirtualBox:/home$ ls /home/tmdeeb/Downloads/
lab4files.zip
tmdeeb@tmdeeb-VirtualBox:/home$ cd /dev/disk/by-id
tmdeeb@tmdeeb-VirtualBox:/dev/disk/by-id$ ls /la /home
ls: cannot access '/la': No such file or directory
/home:
tmdeeb
tmdeeb@tmdeeb-VirtualBox:/dev/disk/by-id$ ls -la /home
total 12
drwxr-xr-x  3 root   root   4096 Feb 13 13:18 .
drwxr-xr-x 20 root   root   4096 Feb 13 13:17 ..
drwxr-x--- 22 tmdeeb tmdeeb 4096 Mar 14 08:32 tmdeeb

```

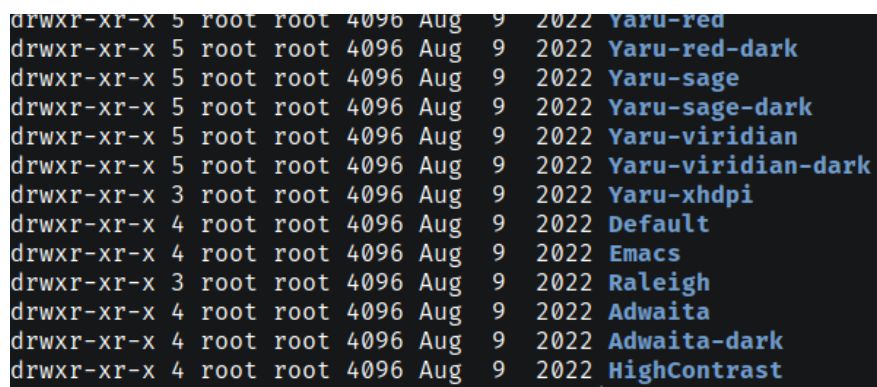
```

1/1  +  [?]  [?]  Tilix: tmdeeb@tmdeeb

1: tmdeeb@tmdeeb-VirtualBox: /dev/disk/by-id  v

tmdeeb@tmdeeb-VirtualBox:/dev/disk/by-id$ ls -lt /usr/share/themes/
total 120
drwxr-xr-x  7 root   root   4096 Aug  9 2022 Yaru
drwxr-xr-x  5 root   root   4096 Aug  9 2022 Yaru-bark
drwxr-xr-x  5 root   root   4096 Aug  9 2022 Yaru-bark-dark
drwxr-xr-x  5 root   root   4096 Aug  9 2022 Yaru-blue
drwxr-xr-x  5 root   root   4096 Aug  9 2022 Yaru-blue-dark
drwxr-xr-x  7 root   root   4096 Aug  9 2022 Yaru-dark
drwxr-xr-x  3 root   root   4096 Aug  9 2022 Yaru-dark-hdpi
drwxr-xr-x  3 root   root   4096 Aug  9 2022 Yaru-dark-xhdpi
drwxr-xr-x  3 root   root   4096 Aug  9 2022 Yaru-hdpi
drwxr-xr-x  5 root   root   4096 Aug  9 2022 Yaru-magenta
drwxr-xr-x  5 root   root   4096 Aug  9 2022 Yaru-magenta-dark
drwxr-xr-x  5 root   root   4096 Aug  9 2022 Yaru-olive
drwxr-xr-x  5 root   root   4096 Aug  9 2022 Yaru-olive-dark
drwxr-xr-x  5 root   root   4096 Aug  9 2022 Yaru-prussiangreen
drwxr-xr-x  5 root   root   4096 Aug  9 2022 Yaru-prussiangreen-dark
drwxr-xr-x  5 root   root   4096 Aug  9 2022 Yaru-purple
drwxr-xr-x  5 root   root   4096 Aug  9 2022 Yaru-purple-dark

```



```
drwxr-xr-x 5 root root 4096 Aug 9 2022 Yaru-red
drwxr-xr-x 5 root root 4096 Aug 9 2022 Yaru-red-dark
drwxr-xr-x 5 root root 4096 Aug 9 2022 Yaru-sage
drwxr-xr-x 5 root root 4096 Aug 9 2022 Yaru-sage-dark
drwxr-xr-x 5 root root 4096 Aug 9 2022 Yaru-viridian
drwxr-xr-x 5 root root 4096 Aug 9 2022 Yaru-viridian-dark
drwxr-xr-x 3 root root 4096 Aug 9 2022 Yaru-xhdpi
drwxr-xr-x 4 root root 4096 Aug 9 2022 Default
drwxr-xr-x 4 root root 4096 Aug 9 2022 Emacs
drwxr-xr-x 3 root root 4096 Aug 9 2022 Raleigh
drwxr-xr-x 4 root root 4096 Aug 9 2022 Adwaita
drwxr-xr-x 4 root root 4096 Aug 9 2022 Adwaita-dark
drwxr-xr-x 4 root root 4096 Aug 9 2022 HighContrast
```



```

Applications  Places

1/1  +  [ ]  [ ]

1: tmdeeb@tmdeeb-VirtualBox: /dev/disk/by-id  ▾

tmdeeb@tmdeeb-VirtualBox:/dev/disk/by-id$ ls -lX /usr/share/
total 1408
drwxr-xr-x  4 root root  4096 Mar  6 09:46 accountsservice
drwxr-xr-x  2 root root  4096 Feb 14 10:20 aclocal
drwxr-xr-x  2 root root  4096 Aug  9 2022 acpi-support
drwxr-xr-x  2 root root  4096 Aug  9 2022 adduser
drwxr-xr-x  4 root root  4096 Feb 14 10:19 aisleriot
drwxr-xr-x  3 root root  4096 Mar  6 09:46 alacarte
drwxr-xr-x 11 root root  4096 Feb 14 09:54 alsa
drwxr-xr-x  2 root root  4096 Aug  9 2022 alsa-base
drwxr-xr-x  3 root root  4096 Aug  9 2022 alsa-card-profile
drwxr-xr-x  2 root root  4096 Feb 14 10:15 appdata
drwxr-xr-x  3 root root  4096 Feb 14 10:22 app-info
drwxr-xr-x  2 root root 16384 Mar 13 10:47 applications
drwxr-xr-x  4 root root  4096 Feb 14 10:19 apport
drwxr-xr-x  4 root root  4096 Feb 14 10:22 apps
drwxr-xr-x  2 root root  4096 Aug  9 2022 apturl
drwxr-xr-x  2 root root  4096 Aug  9 2022 aspell
drwxr-xr-x  2 root root  4096 Aug  9 2022 avahi
drwxr-xr-x  3 root root  4096 Aug  9 2022 backgrounds
drwxr-xr-x  2 root root  4096 Aug  9 2022 base-files
drwxr-xr-x  2 root root  4096 Aug  9 2022 base-passwd
drwxr-xr-x  4 root root  4096 Aug  9 2022 bash-completion
drwxr-xr-x  2 root root  4096 Feb 14 09:54 binfmts
drwxr-xr-x  4 root root  4096 Aug  9 2022 branding
drwxr-xr-x  3 root root  4096 Aug  9 2022 brltty
drwxr-xr-x 132 root root  4096 Feb 14 10:22 bug
drwxr-xr-x  2 root root  4096 Feb 14 10:01 build-essential
drwxr-xr-x  3 root root  4096 Aug  9 2022 ca-certificates
drwxr-xr-x  3 root root  4096 Feb 14 10:21 caffeine-indicator
drwxr-xr-x  2 root root  4096 Feb 14 10:20 catdoc
drwxr-xr-x  3 root root  4096 Aug  9 2022 cmake
drwxr-xr-x  5 root root  4096 Feb 14 10:15 code
drwxr-xr-x  3 root root  4096 Aug  9 2022 cogl
drwxr-xr-x  3 root root  4096 Aug  9 2022 color
drwxr-xr-x  7 root root  4096 Aug  9 2022 colord
drwxr-xr-x  2 root root  4096 Aug  9 2022 common-licenses
drwxr-xr-x  2 root root 28672 Aug  9 2022 consolefonts
drwxr-xr-x  2 root root  4096 Aug  9 2022 console-setup
drwxr-xr-x  2 root root  4096 Aug  9 2022 consoletrans

```

```

Applications  Places
1 / 1  +  [?]  [?]
1: tmdeeb@tmdeeb-VirtualBox: /dev/disk/by-id  v
drwxr-xr-x    3 root root  4096 Mar  6 10:25 cowsay
drwxr-xr-x   18 root root  4096 Aug  9  2022 cups
drwxr-xr-x    8 root root  4096 Feb 14 09:54 dbus-1
drwxr-xr-x    3 root root  4096 Aug  9  2022 dconf
drwxr-xr-x    2 root root  4096 Aug  9  2022 debconf
drwxr-xr-x    3 root root  4096 Aug  9  2022 debhelper
drwxr-xr-x    3 root root  4096 Aug  9  2022 debianutils
drwxr-xr-x    3 root root  4096 Aug  9  2022 defaults
drwxr-xr-x    2 root root  4096 Mar  6 09:46 desktop-directories
drwxr-xr-x    2 root root  4096 Aug  9  2022 dict
drwxr-xr-x    3 root root  4096 Aug  9  2022 dictionaries-common
drwxr-xr-x    2 root root  4096 Feb 14 09:54 distro-info
drwxr-xr-x    4 root root  4096 Aug  9  2022 djvu
drwxr-xr-x    2 root root  4096 Aug  9  2022 dns
drwxr-xr-x    2 root root  4096 Aug  9  2022 dnsmasq-base
drwxr-xr-x 2123 root root 73728 Mar 13 10:48 doc
drwxr-xr-x    2 root root  4096 Feb 14 10:22 doc-base
drwxr-xr-x    3 root root  4096 Feb 14 10:01 dpkg
drwxr-xr-x    3 root root  4096 Aug  9  2022 emacs
drwxr-xr-x    2 root root  4096 Aug  9  2022 emacsens-common
drwxr-xr-x    2 root root  4096 Aug  9  2022 enchant-2
drwxr-xr-x    3 root root  4096 Aug  9  2022 eog
drwxr-xr-x    2 root root  4096 Mar  6 10:06 epiphany-browser
drwxr-xr-x    3 root root  4096 Aug  9  2022 evince
drwxr-xr-x    3 root root  4096 Feb 14 09:54 evolution-data-server
drwxr-xr-x    2 root root  4096 Mar  6 10:25 figlet
drwxr-xr-x    3 root root  4096 Aug  9  2022 file
drwxr-xr-x    2 root root  4096 Aug  9  2022 file-roller
drwxr-xr-x    4 root root  4096 Aug  9  2022 fish
drwxr-xr-x    3 root root  4096 Feb 14 10:19 flameshot
drwxr-xr-x    3 root root  4096 Feb 14 10:22 flatpak
drwxr-xr-x    3 root root  4096 Aug  9  2022 fontconfig
drwxr-xr-x    8 root root  4096 Aug  9  2022 fonts
drwxr-xr-x    3 root root  4096 Aug  9  2022 fonts-droid-fallback
drwxr-xr-x    4 root root  4096 Aug  9  2022 fonts-sil-abyssinica
drwxr-xr-x    4 root root  4096 Aug  9  2022 fonts-sil-padauk
drwxr-xr-x    3 root root  4096 Aug  9  2022 foo2qpdf
drwxr-xr-x    3 root root  4096 Aug  9  2022 foo2zjs
drwxr-xr-x    5 root root  4096 Feb 14 09:54 fwupd
drwxr-xr-x    2 root root  4096 Aug  9  2022 gamemode

```


Applications Places

1/1 + ↗ ↖

1: tmdeeb@tmdeeb-VirtualBox: /dev/disk/by-id ▾

drwxr-xr-x	4	root	root	4096	Mar	6	10:25	games
drwxr-xr-x	3	root	root	4096	Aug	9	2022	gcc
drwxr-xr-x	3	root	root	4096	Aug	9	2022	GConf
drwxr-xr-x	6	root	root	4096	Aug	9	2022	gdb
drwxr-xr-x	5	root	root	4096	Aug	9	2022	gdm
drwxr-xr-x	6	root	root	4096	Feb	14	10:19	geany
drwxr-xr-x	3	root	root	4096	Mar	6	10:07	geary
drwxr-xr-x	3	root	root	4096	Aug	9	2022	gedit
drwxr-xr-x	2	root	root	4096	Feb	14	10:19	GeoIP
drwxr-xr-x	3	root	root	4096	Aug	9	2022	gettext
drwxr-xr-x	4	root	root	4096	Aug	9	2022	ghostscript
drwxr-xr-x	4	root	root	4096	Feb	14	10:20	git-core
drwxr-xr-x	3	root	root	4096	Mar	13	10:47	gitweb
drwxr-xr-x	3	root	root	4096	Aug	9	2022	glade
drwxr-xr-x	3	root	root	4096	Aug	9	2022	glvnd
drwxr-xr-x	4	root	root	4096	Feb	14	09:54	gnome
drwxr-xr-x	5	root	root	4096	Mar	6	09:46	gnome-applets
drwxr-xr-x	2	root	root	4096	Aug	9	2022	gnome-background-properties
drwxr-xr-x	2	root	root	4096	Aug	9	2022	gnome-bluetooth
drwxr-xr-x	5	root	root	4096	Aug	9	2022	gnome-control-center
drwxr-xr-x	2	root	root	4096	Feb	14	09:54	gnome-initial-setup
drwxr-xr-x	2	root	root	4096	Aug	9	2022	gnome-logs
drwxr-xr-x	3	root	root	4096	Feb	14	10:19	gnome-mahjongg
drwxr-xr-x	4	root	root	4096	Mar	6	09:46	gnome-panel
drwxr-xr-x	2	root	root	4096	Aug	9	2022	gnome-remote-desktop
drwxr-xr-x	3	root	root	4096	Aug	9	2022	gnome-session
drwxr-xr-x	3	root	root	4096	Aug	9	2022	gnome-settings-daemon
drwxr-xr-x	7	root	root	4096	Feb	14	09:54	gnome-shell
drwxr-xr-x	2	root	root	4096	Feb	14	10:22	gnome-software
drwxr-xr-x	2	root	root	4096	Aug	9	2022	gnome-system-monitor
drwxr-xr-x	2	root	root	4096	Aug	9	2022	gnome-todo
drwxr-xr-x	2	root	root	4096	Feb	14	10:21	gnome-tweaks
drwxr-xr-x	2	root	root	4096	Aug	9	2022	gnome-video-effects
drwxr-xr-x	2	root	root	4096	Aug	9	2022	gnupg
drwxr-xr-x	3	root	root	4096	Aug	9	2022	grilo-plugins
drwxr-xr-x	3	root	root	4096	Aug	9	2022	groff
drwxr-xr-x	3	root	root	4096	Feb	13	13:20	grub
drwxr-xr-x	3	root	root	4096	Aug	9	2022	grub-gfxpayload-lists
drwxr-xr-x	3	root	root	4096	Aug	9	2022	gst-plugins-base
drwxr-xr-x	3	root	root	4096	Aug	9	2022	gtk-doc

Applications Places									
1/1 ▾ + ↗ ↶									
1: tmdeeb@tmdeeb-VirtualBox: /dev/disk/by-id ▾									
drwxr-xr-x	2	root	root	4096	Aug	9	2022	gtk-engines	
drwxr-xr-x	4	root	root	4096	Aug	9	2022	gtksourceview-4	
drwxr-xr-x	3	root	root	4096	Aug	9	2022	guile	
drwxr-xr-x	2	root	root	4096	Aug	9	2022	gupnp-av	
drwxr-xr-x	4	root	root	4096	Aug	9	2022	gvfs	
drwxr-xr-x	64	root	root	4096	Mar	6	10:06	help	
drwxr-xr-x	4	root	root	4096	Feb	13	13:19	help-langpack	
drwxr-xr-x	12	root	root	4096	Feb	14	09:55	hplip	
drwxr-xr-x	2	root	root	4096	Aug	9	2022	hunspell	
drwxr-xr-x	2	root	root	4096	Feb	14	10:20	hwdata	
drwxr-xr-x	2	root	root	4096	Aug	9	2022	hyphen	
drwxr-xr-x	4	root	root	4096	Aug	9	2022	i18n	
drwxr-xr-x	6	root	root	4096	Aug	9	2022	ibus	
drwxr-xr-x	7	root	root	4096	Aug	9	2022	ibus-table	
drwxr-xr-x	40	root	root	4096	Mar	6	10:03	icons	
drwxr-xr-x	2	root	root	4096	Mar	13	10:46	ImageMagick-6	
drwxr-xr-x	3	root	root	4096	Aug	9	2022	im-config	
drwxr-xr-x	3	root	root	4096	Mar	6	09:46	indicator-application	
drwxr-xr-x	3	root	root	4096	Mar	6	09:46	indicator-power	
drwxr-xr-x	3	root	root	4096	Aug	9	2022	indicators	
drwxr-xr-x	2	root	root	4096	Feb	14	10:21	info	
drwxr-xr-x	7	root	root	4096	Feb	14	09:54	initramfs-tools	
drwxr-xr-x	3	root	root	4096	Feb	13	13:18	installed-tests	
drwxr-xr-x	3	root	root	4096	Aug	9	2022	ipp-usb	
drwxr-xr-x	2	root	root	4096	Aug	9	2022	iptables	
drwxr-xr-x	3	root	root	4096	Aug	9	2022	iso-codes	
drwxr-xr-x	2	root	root	4096	Mar	6	09:46	java	
drwxr-xr-x	5	root	root	4096	Feb	14	10:20	javascript	
drwxr-xr-x	3	root	root	4096	Mar	6	10:10	juk	
drwxr-xr-x	2	root	root	4096	Mar	6	10:02	kconf_update	
drwxr-xr-x	3	root	root	4096	Aug	9	2022	kde4	
drwxr-xr-x	2	root	root	4096	Aug	9	2022	keyrings	
drwxr-xr-x	6	root	root	4096	Mar	6	10:02	kf5	
drwxr-xr-x	2	root	root	4096	Mar	6	10:10	knotifications5	
drwxr-xr-x	4	root	root	4096	Mar	6	10:03	kservices5	
drwxr-xr-x	2	root	root	4096	Mar	6	10:02	kservicetypes5	
drwxr-xr-x	3	root	root	4096	Mar	6	10:10	kxmlgui5	
drwxr-xr-x	3	root	root	4096	Aug	9	2022	language-selector	
drwxr-xr-x	2	root	root	4096	Feb	14	09:54	language-support	
drwxr-xr-x	2	root	root	4096	Aug	9	2022	language-tools	

```

Applications  Places
1/1  +  [ ]  [ ]
Tilix: tmd

1: tmdeeb@tmdeeb-VirtualBox: /dev/disk/by-id  v

drwxr-xr-x  2 root root  4096 Feb 14 10:21 libcasa
drwxr-xr-x  2 root root  4096 Aug  9 2022 libcb-bin
drwxr-xr-x  2 root root  4096 Aug  9 2022 libdebuginfod-common
drwxr-xr-x  2 root root  4096 Feb 14 09:54 libdrm
drwxr-xr-x  2 root root  4096 Aug  9 2022 libexttextcat
drwxr-xr-x  4 root root  4096 Aug  9 2022 libgnomekbd
drwxr-xr-x  2 root root  4096 Aug  9 2022 libgweather
drwxr-xr-x  2 root root  4096 Mar  6 09:46 libgweather-4
drwxr-xr-x  2 root root 12288 Feb 14 09:54 libinput
drwxr-xr-x  3 root root  4096 Aug  9 2022 liblangtag
drwxr-xr-x  3 root root  4096 Aug  9 2022 liblouis
drwxr-xr-x  3 root root  4096 Aug  9 2022 liblouisutdml
drwxr-xr-x  2 root root  4096 Feb 13 13:20 libmysofa
drwxr-xr-x  6 root root  4096 Feb 13 13:18 libreoffice
drwxr-xr-x  3 root root  4096 Aug  9 2022 libvenge
drwxr-xr-x  2 root root  4096 Aug  9 2022 libthai
drwxr-xr-x  3 root root 20480 Aug  9 2022 libwacom
drwxr-xr-x  3 root root  4096 Aug  9 2022 lightdm
drwxr-xr-x  4 root root  4096 Aug  9 2022 lintian
drwxr-xr-x  2 root root  4096 Aug  9 2022 linux-sound-base
drwxr-xr-x 244 root root  4096 Mar  6 10:02 locale
drwxr-xr-x  10 root root  4096 Feb 13 13:19 locale-langpack
drwxr-xr-x  2 root root  4096 Aug  9 2022 locales
drwxr-xr-x  2 root root  4096 Feb 14 10:01 lto-disabled-list
drwxr-xr-x  3 root root  4096 Aug  9 2022 m2300w
drwxr-xr-x  38 root root  4096 Mar  6 10:03 man
drwxr-xr-x  2 root root  4096 Aug  9 2022 man-db
drwxr-xr-x  3 root root  4096 Feb 14 10:20 mate-panel
drwxr-xr-x  3 root root  4096 Aug  9 2022 maven-repo
drwxr-xr-x  2 root root 12288 Aug  9 2022 media-player-info
drwxr-xr-x  2 root root  4096 Mar  6 10:25 menu
drwxr-xr-x  2 root root  4096 Feb 14 10:21 mesa-demos
drwxr-xr-x  2 root root  4096 Mar  6 10:10 metainfo
drwxr-xr-x  2 root root  4096 Feb 13 13:20 mfx
drwxr-xr-x  15 root root  4096 Mar  6 10:03 mime
drwxr-xr-x  2 root root  4096 Aug  9 2022 misc
drwxr-xr-x  2 root root  4096 Aug  9 2022 mobile-broadband-provider-info
drwxr-xr-x  3 root root  4096 Aug  9 2022 ModemManager
drwxr-xr-x  2 root root  4096 Aug  9 2022 mousetweaks
drwxr-xr-x  2 root root  4096 Aug  9 2022 mythes

```


Applications Places

1/1 + [Share] [Fullscreen]

Tilix: tmdee

1: tmdeeb@tmdeeb-VirtualBox: /dev/disk/by-id

drwxr-xr-x	4	root	root	4096	Aug	9	2022	nano
drwxr-xr-x	3	root	root	4096	Aug	9	2022	nautilus
drwxr-xr-x	3	root	root	4096	Feb	14	10:19	nautilus-python
drwxr-xr-x	3	root	root	4096	Aug	9	2022	nautilus-share
drwxr-xr-x	5	root	root	4096	Feb	14	10:20	nemo
drwxr-xr-x	2	root	root	4096	Feb	14	10:21	netpbm
drwxr-xr-x	3	root	root	4096	Feb	14	09:54	netplan
drwxr-xr-x	2	root	root	4096	Feb	14	10:19	numpy3
drwxr-xr-x	2	root	root	4096	Feb	14	09:55	openvpn
drwxr-xr-x	3	root	root	4096	Aug	9	2022	orca
drwxr-xr-x	2	root	root	4096	Aug	9	2022	os-prober
drwxr-xr-x	3	root	root	4096	Aug	9	2022	p11-kit
drwxr-xr-x	2	root	root	4096	Feb	14	10:22	package-data-downloads
drwxr-xr-x	3	root	root	4096	Aug	9	2022	PackageKit
drwxr-xr-x	2	root	root	4096	Feb	14	09:54	pam
drwxr-xr-x	2	root	root	4096	Mar	13	10:45	pam-configs
drwxr-xr-x	3	root	root	4096	Aug	9	2022	perl
drwxr-xr-x	31	root	root	4096	Mar	13	10:47	perl5
drwxr-xr-x	2	root	root	4096	Aug	9	2022	perl-openssl-defaults
drwxr-xr-x	3	root	root	4096	Feb	14	09:54	pipewire
drwxr-xr-x	4	root	root	4096	Mar	13	10:47	pixmaps
drwxr-xr-x	2	root	root	4096	Mar	13	10:45	pkgconfig
drwxr-xr-x	3	root	root	4096	Aug	9	2022	plymouth
drwxr-xr-x	2	root	root	4096	Aug	9	2022	pnm2ppa
drwxr-xr-x	3	root	root	4096	Feb	13	13:20	pocketsphinx
drwxr-xr-x	4	root	root	4096	Aug	9	2022	polkit-1
drwxr-xr-x	6	root	root	4096	Aug	9	2022	poppler
drwxr-xr-x	5	root	root	4096	Aug	9	2022	ppd
drwxr-xr-x	2	root	root	4096	Aug	9	2022	ppp
drwxr-xr-x	2	root	root	4096	Aug	9	2022	publicsuffix
drwxr-xr-x	3	root	root	4096	Aug	9	2022	pulseaudio
drwxr-xr-x	2	root	root	4096	Aug	9	2022	pyshared
drwxr-xr-x	6	root	root	4096	Feb	14	09:54	python3
drwxr-xr-x	3	root	root	4096	Aug	9	2022	python-apt
drwxr-xr-x	2	root	root	4096	Mar	6	10:03	qlogging-categories5
drwxr-xr-x	3	root	root	4096	Feb	14	10:19	qt5
drwxr-xr-x	2	root	root	4096	Aug	9	2022	readline
drwxr-xr-x	5	root	root	4096	Aug	9	2022	remmina
drwxr-xr-x	3	root	root	4096	Aug	9	2022	rhythmbox
drwxr-xr-x	2	root	root	4096	Mar	6	10:25	rig

Applications Places

1/1 + [Share] [Fullscreen]

Tilix: tm

1: tmdeeb@tmdeeb-VirtualBox: /dev/disk/by-id

```

drwxr-xr-x 3 root root 4096 Aug 9 2022 rsync
drwxr-xr-x 2 root root 4096 Aug 9 2022 rsyslog
drwxr-xr-x 4 root root 4096 Feb 14 10:20 rubygems-integration
drwxr-xr-x 5 root root 4096 Aug 9 2022 rygel
drwxr-xr-x 5 root root 4096 Feb 14 10:21 samba
drwxr-xr-x 3 root root 4096 Aug 9 2022 seahorse
drwxr-xr-x 3 root root 4096 Aug 9 2022 secureboot
drwxr-xr-x 3 root root 4096 Aug 29 2021 sensible-utils
drwxr-xr-x 3 root root 4096 Aug 9 2022 session-migration
drwxr-xr-x 9 root root 4096 Aug 9 2022 sgml
drwxr-xr-x 2 root root 4096 Aug 9 2022 sgml-base
drwxr-xr-x 2 root root 4096 Aug 9 2022 sgml-data
drwxr-xr-x 4 root root 4096 Aug 9 2022 snmp
drwxr-xr-x 3 root root 4096 Aug 9 2022 software-properties
drwxr-xr-x 3 root root 4096 Feb 14 10:19 solid
drwxr-xr-x 11 root root 4096 Mar 6 09:46 sounds
drwxr-xr-x 2 root root 12288 Aug 9 2022 source-highlight
drwxr-xr-x 4 root root 4096 Aug 9 2022 speech-dispatcher
drwxr-xr-x 2 root root 4096 Aug 9 2022 ssl-cert
drwxr-xr-x 7 root root 4096 Aug 9 2022 system-config-printer
drwxr-xr-x 2 root root 4096 Mar 13 10:45 systemd
drwxr-xr-x 3 root root 4096 Feb 14 10:20 systemtap
drwxr-xr-x 2 root root 4096 Aug 9 2022 tabset
drwxr-xr-x 3 root root 4096 Aug 9 2022 tcltk
drwxr-xr-x 2 root root 4096 Jan 17 2022 terminfo
drwxr-xr-x 2 root root 4096 Feb 14 10:20 tex-common
drwxr-xr-x 7 root root 4096 Feb 14 10:20 texlive
drwxr-xr-x 6 root root 4096 Feb 14 10:20 texmf
drwxr-xr-x 32 root root 4096 Aug 9 2022 themes
drwxr-xr-x 2 root root 4096 Feb 14 09:54 thumbnailers
drwxr-xr-x 5 root root 4096 Feb 14 10:19 tilix
drwxr-xr-x 2 root root 4096 Aug 9 2022 totem
drwxr-xr-x 5 root root 4096 Aug 9 2022 tracker3
drwxr-xr-x 5 root root 4096 Aug 9 2022 tracker3-miners
drwxr-xr-x 3 root root 4096 Aug 9 2022 transmission
drwxr-xr-x 3 root root 4096 Aug 9 2022 ubuntu
drwxr-xr-x 4 root root 4096 Aug 9 2022 ubuntu-drivers-common
drwxr-xr-x 3 root root 4096 Feb 14 09:54 ubuntu-release-upgrader
drwxr-xr-x 3 root root 4096 Aug 9 2022 ubuntu-wayland
drwxr-xr-x 2 root root 4096 Aug 9 2022 ucf

```



```

drwxr-xr-x  4 root root 4096 Aug  9 2022 ufw
drwxr-xr-x  2 root root 4096 Aug  9 2022 unattended-upgrades
drwxr-xr-x  3 root root 4096 Mar  6 09:46 unity
drwxr-xr-x  3 root root 4096 Aug  9 2022 update-manager
drwxr-xr-x  5 root root 4096 Aug  9 2022 update-notifier
drwxr-xr-x  5 root root 4096 Mar  6 09:46 upstart
drwxr-xr-x  2 root root 4096 Aug  9 2022 usb-creator
drwxr-xr-x  2 root root 4096 Aug  9 2022 usb_modeswitch
drwxr-xr-x  3 root root 4096 Aug  9 2022 vala
drwxr-xr-x  5 root root 4096 Feb 14 09:54 vim
drwxr-xr-x  5 root root 4096 Feb 14 10:19 vlc
drwxr-xr-x  5 root root 4096 Aug  9 2022 vulkan
drwxr-xr-x  2 root root 4096 Feb 14 10:21 w3m
drwxr-xr-x  2 root root 4096 Aug  9 2022 wayland-sessions
drwxr-xr-x  5 root root 4096 Aug  9 2022 X11
drwxr-xr-x  3 root root 4096 Feb 14 10:20 xapps-common
drwxr-xr-x  3 root root 4096 Aug  9 2022 xdg-desktop-portal
drwxr-xr-x 11 root root 4096 Aug  9 2022 xml
drwxr-xr-x  2 root root 4096 Aug  9 2022 xml-core
drwxr-xr-x  2 root root 4096 Mar  6 09:46 xsessions
drwxr-xr-x  6 root root 4096 Aug  9 2022 yelp
drwxr-xr-x  4 root root 4096 Aug  9 2022 yelp-xsl
drwxr-xr-x  2 root root 4096 Aug  9 2022 zenity
drwxr-xr-x 20 root root 4096 Feb 14 09:54 zoneinfo
drwxr-xr-x  3 root root 4096 Aug  9 2022 zoneinfo-icu
drwxr-xr-x  4 root root 4096 Feb 14 10:19 zsh
drwxr-xr-x  2 root root 4096 Feb 13 13:19 gir-1.0
drwxr-xr-x  3 root root 4096 Feb 14 09:54 glib-2.0
drwxr-xr-x  2 root root 4096 Aug  9 2022 gnome-bluetooth-3.0
drwxr-xr-x  3 root root 4096 Aug  9 2022 goa-1.0
drwxr-xr-x  4 root root 4096 Feb 13 13:20 gstreamer-1.0
drwxr-xr-x  3 root root 4096 Aug  9 2022 gtk-4.0
drwxr-xr-x  4 root root 4096 Feb 14 10:20 gtksourceview-2.0
drwxr-xr-x  4 root root 4096 Feb 14 10:20 gtksourceview-3.0
drwxr-xr-x  3 root root 4096 Aug  9 2022 gupnp-dlna-2.0
drwxr-xr-x  3 root root 4096 Aug  9 2022 org.gnome.Characters
drwxr-xr-x  2 root root 4096 Feb 14 09:55 drirc.d
tmdeeb@tmdeeb-VirtualBox:/dev/disk/by-id$ _

```

Question 5

```
Applications Places
1 / 1 + [ ] [ ]
1: tmdeeb@tmdeeb-VirtualBox: ~/Downloads v
tmdeeb@tmdeeb-VirtualBox:/$ cd /home/
tmdeeb@tmdeeb-VirtualBox:/home$ cd /home/tmdeeb/
tmdeeb@tmdeeb-VirtualBox:~$ cd /home/tmdeeb/Downloads/
tmdeeb@tmdeeb-VirtualBox:~/Downloads$ _
```

```
Applications Places
1 / 1 + [ ] [ ] Tilix: tm
1: tmdeeb@tmdeeb-VirtualBox: ~/Documents v
tmdeeb@tmdeeb-VirtualBox:/$ cd /home
tmdeeb@tmdeeb-VirtualBox:/home$ cd /home/tmdeeb/
tmdeeb@tmdeeb-VirtualBox:~$ cd /home/tmdeeb/Downloads/
tmdeeb@tmdeeb-VirtualBox:~/Downloads$ cd /usr/share/themes/Adwaita/
tmdeeb@tmdeeb-VirtualBox:/usr/share/themes/Adwaita$ cd ../
tmdeeb@tmdeeb-VirtualBox:/$ cd /home/tmdeeb
tmdeeb@tmdeeb-VirtualBox:~$ cd /home/tmdeeb/Documents/
tmdeeb@tmdeeb-VirtualBox:~/Documents$ pwd
/home/tmdeeb/Documents
tmdeeb@tmdeeb-VirtualBox:~/Documents$ _
```