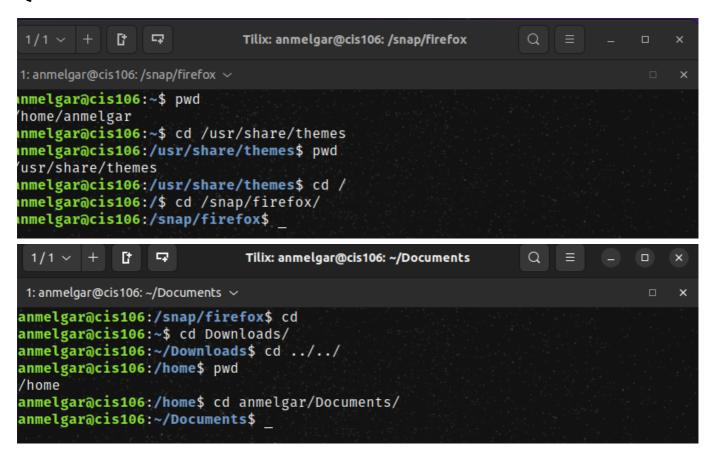
Lab 4 The Linux FS

Question 1



Question 2

```
1: anmelgar@cis106: ~/lab4files ~
anmelgar@cis106:~/Documents$ cd /usr/share/
anmelgar@cis106:/usr/share$ ls /home/anmelgar/lab4files/
countries.json document.docx helloWorld.c sample.xls
                                                              Ubuntu.pdf
csvfile.csv
                 globe.avi
                                 Linux.pdf
                                                 Tux.png
                                                              website.html
anmelgar@cis106:/usr/share$ cd ~/lab4files/
anmelgar@cis106:~/lab4files$ ls -l
total 6580
                                    20471 Feb 22
                                                   2022 countries.json
-rw-rw-r-- 1 anmelgar anmelgar
rw-rw-r-- 1 anmelgar anmelgar 284042 Feb 22
                                                   2022 csvfile.csv
 rw-rw-r-- 1 anmelgar anmelgar 764176 Feb 22
                                                   2022 document.docx
 rw-rw-r-- 1 anmelgar anmelgar 742478 Feb 22
                                                   2022 globe.avi
                                                   2022 helloWorld.c
rw-rw-r-- 1 anmelgar anmelgar
                                       76 Feb 22
rw-rw-r-- 1 anmelgar anmelgar 2600138 Feb 22
                                                   2022 Linux.pdf
rw-rw-r-- 1 anmelgar anmelgar
rw-rw-r-- 1 anmelgar anmelgar
                                    8704 Feb 22
                                                   2022 sample.xls
                                    42777 Feb 22
                                                   2022 Tux.png
-rw-rw-r-- 1 anmelgar anmelgar 2114053 Feb 22
-rw-rw-r-- 1 anmelgar anmelgar 137453 Feb 22
                                                   2022 Ubuntu.pdf
                                                   2022 website.html
anmelgar@cis106:~/lab4files$ ls -lh
total 6.5M
rw-rw-r-- 1 anmelgar anmelgar 20K Feb 22
                                                2022 countries.json
 rw-rw-r-- 1 anmelgar anmelgar 278K Feb 22
                                                2022 csvfile.csv
 rw-rw-r-- 1 anmelgar anmelgar 747K Feb 22
                                                2022 document.docx
rw-rw-r-- 1 anmelgar anmelgar 726K Feb 22
                                                2022 globe.avi
rw-rw-r-- 1 anmelgar anmelgar 76 Feb 22
                                                2022 helloWorld.c
                                                2022 Linux.pdf
rw-rw-r-- 1 anmelgar anmelgar 2.5M Feb 22
rw-rw-r-- 1 anmelgar anmelgar 8.5K Feb 22
                                                2022 sample.xls
 rw-rw-r-- 1 anmelgar anmelgar 42K Feb 22
                                                2022 Tux.png
rw-rw-r-- 1 anmelgar anmelgar 2.1M Feb 22
                                                2022 Ubuntu.pdf
rw-rw-r-- 1 anmelgar anmelgar 135K Feb 22 2022 website.html
anmelgar@cis106:~/lab4files$ ls_-lhS
total 6.5M
                                               2022 Linux.pdf
-rw-rw-r-- 1 anmelgar anmelgar 2.5M Feb 22
rw-rw-r-- 1 anmelgar anmelgar 2.1M Feb 22
rw-rw-r-- 1 anmelgar anmelgar 747K Feb 22
                                               2022 Ubuntu.pdf
                                              2022 document.docx
rw-rw-r-- 1 anmelgar anmelgar 726K Feb 22
                                              2022 globe.avi
rw-rw-r-- 1 anmelgar anmelgar 278K Feb 22
                                              2022 csvfile.csv
rw-rw-r-- 1 anmelgar anmelgar 135K Feb 22 2022 website.html
rw-rw-r-- 1 anmelgar anmelgar 42K Feb 22
                                               2022 Tux.png
rw-rw-r-- 1 anmelgar anmelgar 20K Feb 22
                                               2022 countries.json
-rw-rw-r-- 1 anmelgar anmelgar 8.5K Feb 22
-rw-rw-r-- 1 anmelgar anmelgar 76 Feb 22
anmelgar@cis106:~/lab4files$ ls -lhSgG
                                               2022 sample.xls
                                               2022 helloWorld.c
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
anmelgar@cis106:~/lab4files$ ls -lhSgGi
total 6.5M
922385 -rw-rw-r-- 1 2.5M Feb 22
                                   2022 Linux.pdf
                                   2022 Ubuntu.pdf
922388 -rw-rw-r-- 1 2.1M Feb 22
922391 -rw-rw-r-- 1 747K Feb 22
                                   2022 document.docx
922392 -rw-rw-r-- 1 726K Feb 22
                                   2022 globe.avi
922390 -rw-rw-r-- 1 278K Feb 22
                                   2022 csvfile.csv
922395 -rw-rw-r-- 1 135K Feb 22
                                   2022 website.html
922387 -rw-rw-r-- 1 42K Feb 22
922389 -rw-rw-r-- 1 20K Feb 22
                                   2022 Tux.png
                                   2022 countries.json
922394 -rw-rw-r-- 1 8.5K Feb 22
                                   2022 sample.xls
                       76 Feb 22
922393 -rw-rw-r-- 1
                                   2022 helloWorld.c
```

```
<mark>anmelgar@cis106:~/lab4files</mark>$ ls -Xr
sample.xls Ubuntu.pdf countries.json
Tux.png Linux.pdf website.html
                                               document.docx helloWorld.c
                                               csvfile.csv
                                                                 globe.avi
anmelgar@cis106:~/lab4files$ ls -Xr1
sample.xls
Tux.png
Ubuntu.pdf
Linux.pdf
countries.json
website.html
document.docx
csvfile.csv
helloWorld.c
globe.avi
```

Question 4

```
ar@cis106:~$ pwd
 home/anmelgar
 nnmelgar@cis106:~$ cd /
nnmelgar@cis106:/$ cd /usr/share/icons/default
nnmelgar@cis106:/usr/share/icons/default$ cd /
 nnmelgar@cis106:/$ cd /proc/sys/net/ipv4
nnmelgar@cis106:/proc/sys/net/ipv4$ cd /
nnmelgar@cis106:/$ cd /usr/share/backgrounds
anmetgar@cis106:/$ cd /usr/share/backgrounds
anmetgar@cis106:/usr/share/backgrounds$ ls
Blue_flower_by_Elena_Stravoravdi.jpg
canvas_by_roytanck.jpg
Cherry_Tree_in_Lakones_by_elenastravoravdi.jpg
contest
                                                                                           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
contest
DSC2943_by_kcpru.jpg
anmelgar@cis106:/usr/share/backgrounds$ cd ~
anmelgar@cis106:~$ cd /home/anmelgar/cis106
anmelgar@cis106:~/cis106$ ls
 cheatSheet Labs WeekReports
anmelgar@cis106:~/cis106$ cd /home
anmelgar@cis106:/home$ cd anmelgar
   <mark>nmelgarබcis106:</mark>~$ cd Downloads
 nmelgar@cis106:~/Downloads$ ls
lab4files(1).zip' lab4files.
                                                                     'Linux Workshop Ubuntu Software installation cheat sheet.png'
      ata-VBOX_CD-ROM_VB2-01700376
                                                                                 ata-VBOX_HARDDISK_VBf03724b3-e58cdafa-part1 ata-VBOX_HARDDISK_VBf03724b3-e58cdafa-part3
 . ata-VBOX_HARDDISK_VBf03724b3-e58cdafa ata-VBOX_HARDDISK_VBf03724b3-e58cdafa-part2
nmelgar@cis106:/dev/disk/by-id$ cd /
anmelgar@cis106:/$ cd /usr/share/themes
anmelgar@cis106:/$ cd /usr/share/themes
anmelgar@cis106:/usr/share/themes$ ls -St
Yaru Yaru-blue-dark Yaru-hdpi
                                                                                                   Yaru-olive-dark
                                                                                                                                                                                                                           Default Adwaita-dark
                                                                                                                                                   Yaru-purple-dark Yaru-sage-dark
                                                              Yaru-magenta
                                                                                                                                                                                                                                            HighContrast
                                                                                                   Yaru-prussiangreen
Yaru-bark-dark Yaru-dark-hdpi
Yaru-blue Yaru-dark-xhdpi
                                                             Yaru-magenta-dark Yaru-prussiangreen-dark Yaru-red-dark
Yaru-olive Yaru-purple Yaru-sage
                                                                                                                                                                                     Yaru-viridian-dark Raleigh
                                                                                                                                                                                     Yaru-xhdpi
```

nmelgar@cis106:/usr/sh nmelgar@cis106:/usr/sh				
ccountsservice	figlet	hunspell	mime	solid
clocal	file	hwdata	misc	sounds
pi-support	file-roller	hyphen	mobile-broadband-provider-info	source-highlight
duser	fish	i18n	ModemManager	speech-dispatcher
sleriot	flameshot	ibus	mopidy	sphinx_rtd_theme
acarte	flatpak	ibus-table	mousetweaks	ssl-cert
sa	fontconfig	icons	mythes	system-config-printer
sa-base	fonts	ImageMagick-6	nano	systemd
sa-card-profile	fonts-droid-fallback	im-config	nautilus	systemtap
pdata	fonts-font-awesome	indicator-application		tabset
p-info	fonts-sil-abyssinica	indicator-power	nautilus-share	tcltk
olications	fonts-sil-padauk	indicators	nemo	terminfo
port	foo2qpdl	info	netpbm	tex-common
os _	foo2zjs	initramfs-tools	netplan	texlive
url	fwupd	installed-tests	nodejs	texmf
io	gamemode	ipp-usb	numpy3	themes
pell	games	iptables	open-vm-tools	thumbnailers
ahi	gcc	iso-codes	openvpn	tilix
kgrounds	GConf	java	orca	totem
se-files	gdb	javascript	os-prober	tracker3
e-passwd	gdm	kconf_update	p11-kit	tracker3-miners
sh-completion	geany	kde4	package-data-downloads	transmission
ifmts	geary	keyrings	PackageKit	ubuntu
nding	gedit	kf5	pam	ubuntu-drivers-common
tty	GeoIP	knotifications5	pam-configs	ubuntu-release-upgrad
	gettext	kservices5	perl	ubuntu-wayland
ld-essential	ghostscript	kservicetypes5	perl5	ucf
certificates	git-core	language-selector	perl-openssl-defaults	ufw
feine-indicator	gitweb	language-support	pipewire	unattended-upgrades
doc	glade	language-tools	pixmaps	unity
ake	glvnd	libcaca	pkgconfig	update-manager
de -7	gnome	libc-bin	plymouth	update-notifier
gl	gnome-applets	libdebuginfod-common	pnm2ppa	upstart
lor	gnome-background-properties		pocketsphinx	usb-creator
lord	gnome-bluetooth	libexttextcat	polkit-1	usb_modeswitch
mmon-licenses	gnome-control-center	libgnomekbd	poppler	vala
solefonts	gnome-initial-setup	libgweather	ppd	vim
isole-setup	gnome-logs	libgweather-4	ppp	vlc
nsoletrans	gnome-mahjongg	libinput	publicsuffix	vulkan
vsay	gnome-panel	liblangtag	pulseaudio	w3m
)S	gnome-remote-desktop	liblouis	pyshared	wayland-session
ıs-1	gnome-session	liblouisutdml	python3	X11
onf	gnome-settings-daemon	libmysofa	python-apt	xapps-common
conf	gnome-shell	libreoffice	qlogging-categories5	xdg-desktop-por
ohelper	gnome-software	librevenge	qt5	xml
pianutils	gnome-system-monitor	libthai	readline	xml-core
Faults	gnome-todo	libwacom	remmina	xsessions
ktop-directories	gnome-tweaks	lightdm	rhythmbox	yelp
:t	gnome-video-effects	lintian	rig	yelp-xsl
tionaries-common	gnupg	linux-sound-base	rsync	zenity
tro-info	grilo-plugins	locale	rsyslog	zoneinfo
/u	groff	locale-langpack	rubygems-integration	zoneinfo-icu
, u	grub	locales	rygel	zsh
, smasq-base	grub-gfxpayload-lists	lto-disabled-list	samba	gir-1.0
smasy-base	gst-plugins-base	m2300w	Sass	glib-2.0
c-base	gst-plugins-base gtk-doc	m2300W man	sass seahorse	gnome-bluetooth
c-pase	gtk-doc gtk-engines			
	ofk-engines	man-db	secureboot sensible-utils	goa-1.0
(g			concible utile	gstreamer-1.0
(g acs	gtksourceview-4	mate-panel		
kg acs acsen-common	gtksourceview-4 guile	maven-repo	session-migration	gtk-4.0
kg acs acsen-common chant-2	gtksourceview-4 guile gupnp-av	maven-repo media-player-info	session-migration sgml	gtksourceview-2
kg acs acsen-common chant-2 g	gtksourceview-4 guile gupnp-av gvfs	maven-repo media-player-info menu	session-migration sgml sgml-base	gtksourceview-2 gtksourceview-3
kg acs acsen-common chant-2 g iphany-browser	gtksourceview-4 guile gupnp-av gvfs help	maven-repo media-player-info menu mesa-demos	session-migration sgml sgml-base sgml-data	gtksourceview-: gtksourceview-: gupnp-dlna-2.0
okg nacs nacsen-common nchant-2 og niphany-browser vince	gtksourceview-4 guile gupnp-av gvfs	maven-repo media-player-info menu	session-migration sgml sgml-base	gtksourceview-2 gtksourceview-3

Question 5

```
anmelgar@cis106:~$ cd /
anmelgar@cis106:/$ /usr/share/themes/Adwaita
bash: /usr/share/themes/Adwaita: Is a directory
anmelgar@cis106:/$ cd /usr/share/themes/Adwaita
anmelgar@cis106:/usr/share/themes/Adwaita$ cd /usr/
anmelgar@cis106:/usr$ cd /home
anmelgar@cis106:/home$ cd ~anmelgar/Documents
anmelgar@cis106:~/Documents$__
```