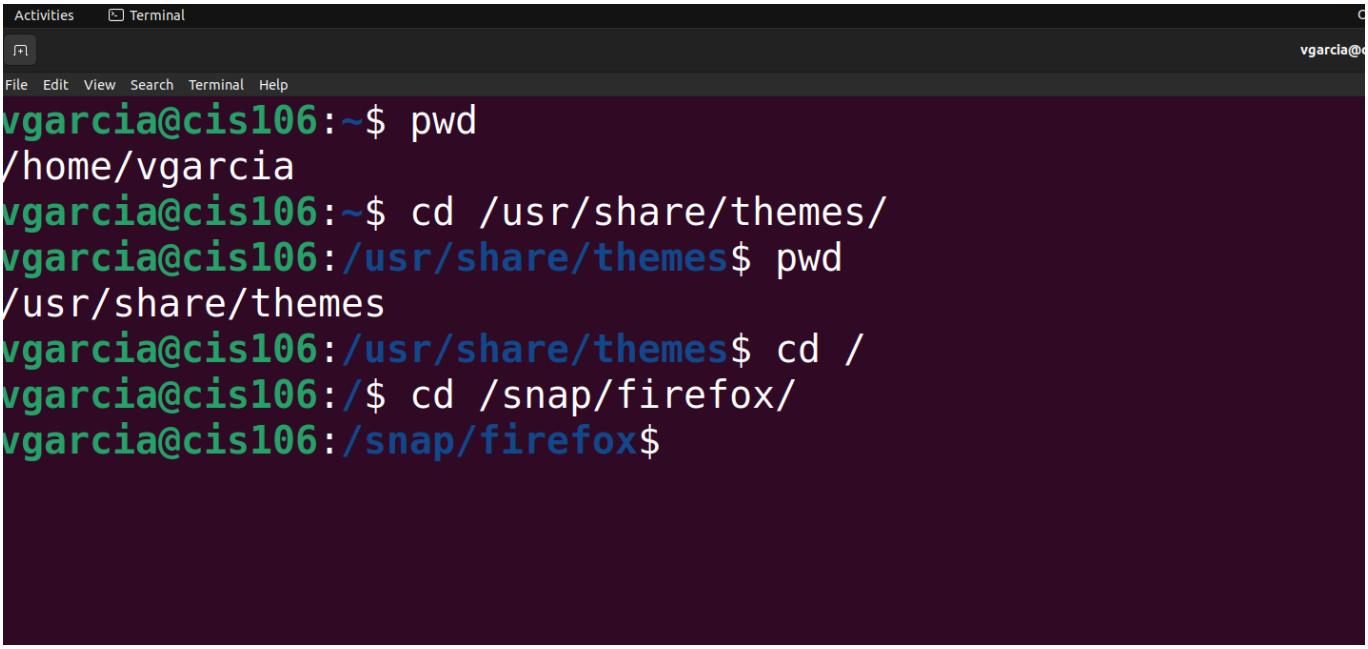
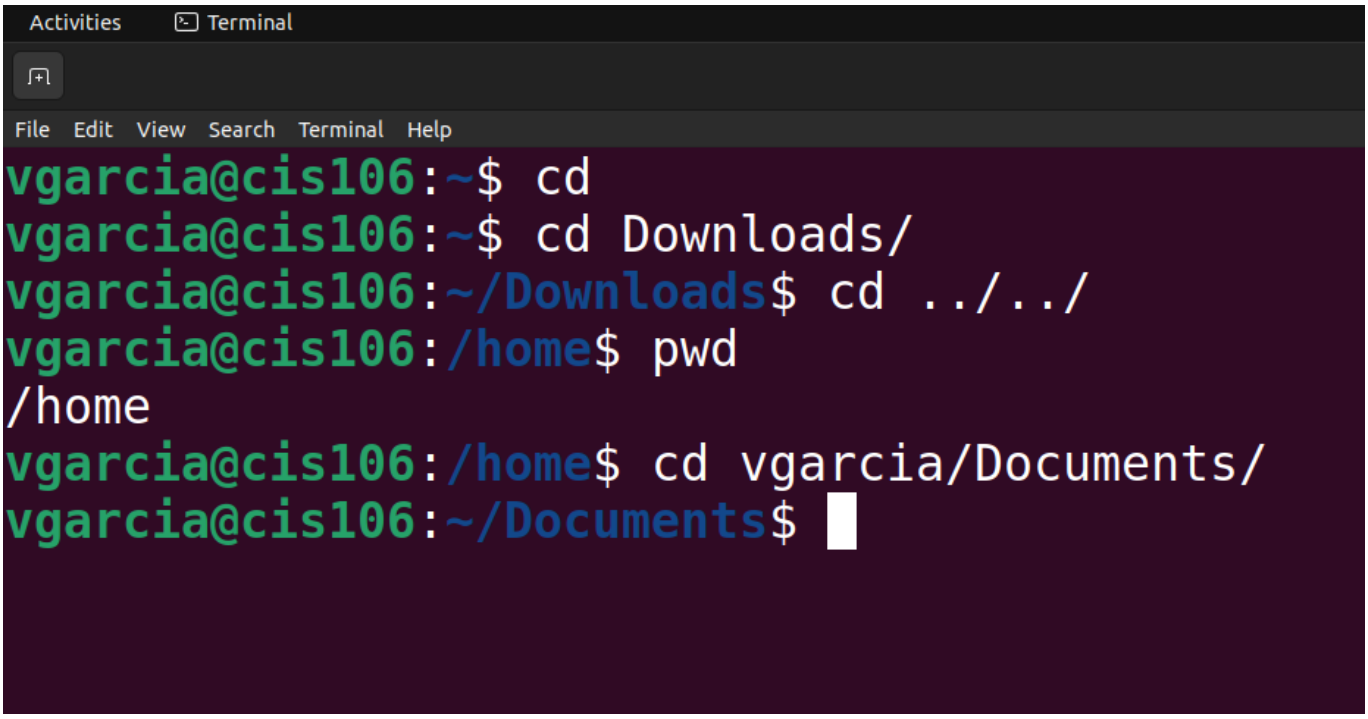
#Lab 4 The Linux FS

Question 1





Question 2

```
vgarcia@cis106:~/Documents$ cd /usr/share/
vgarcia@cis106:/usr/share$ ls /home/vgarcia//lab4files/
countries.json  csvfile.csv  document.docx  globe.avi  helloWorld.c  Linux.pdf  sample.xls  Tux.png  Ubuntu.pdf  website.html
vgarcia@cis106:/usr/share$ cd -/lab4files/
bash: cd: -/: invalid option
cd: usage: cd [-L|[-P [-e]] [-@]] [dir]
vgarcia@cis106:/usr/share$ cd -/lab4files/
bash: cd: -/: invalid option
cd: usage: cd [-L|[-P [-e]] [-@]] [dir]
vgarcia@cis106:/usr/share$ cd /home/vgarcia/lab4files/
vgarcia@cis106:~/lab4files$ ls -l
total 6580
-rw-rw-r-- 1 vgarcia vgarcia   20471 Feb 22  2022 countries.json
-rw-rw-r-- 1 vgarcia vgarcia  284042 Feb 22  2022 csvfile.csv
-rw-rw-r-- 1 vgarcia vgarcia  764176 Feb 22  2022 document.docx
-rw-rw-r-- 1 vgarcia vgarcia  742478 Feb 22  2022 globe.avi
-rw-rw-r-- 1 vgarcia vgarcia      76 Feb 22  2022 helloWorld.c
-rw-rw-r-- 1 vgarcia vgarcia 2600138 Feb 22  2022 Linux.pdf
-rw-rw-r-- 1 vgarcia vgarcia    8704 Feb 22  2022 sample.xls
-rw-rw-r-- 1 vgarcia vgarcia   42777 Feb 22  2022 Tux.png
-rw-rw-r-- 1 vgarcia vgarcia 2114053 Feb 22  2022 Ubuntu.pdf
-rw-rw-r-- 1 vgarcia vgarcia  137453 Feb 22  2022 website.html
vgarcia@cis106:~/lab4files$ ls -lh
total 6.5M
-rw-rw-r-- 1 vgarcia vgarcia  20K Feb 22  2022 countries.json
-rw-rw-r-- 1 vgarcia vgarcia 278K Feb 22  2022 csvfile.csv
-rw-rw-r-- 1 vgarcia vgarcia 747K Feb 22  2022 document.docx
-rw-rw-r-- 1 vgarcia vgarcia 726K Feb 22  2022 globe.avi
-rw-rw-r-- 1 vgarcia vgarcia   76 Feb 22  2022 helloWorld.c
-rw-rw-r-- 1 vgarcia vgarcia 2.5M Feb 22  2022 Linux.pdf
-rw-rw-r-- 1 vgarcia vgarcia 8.5K Feb 22  2022 sample.xls
-rw-rw-r-- 1 vgarcia vgarcia  42K Feb 22  2022 Tux.png
-rw-rw-r-- 1 vgarcia vgarcia 2.1M Feb 22  2022 Ubuntu.pdf
-rw-rw-r-- 1 vgarcia vgarcia 135K Feb 22  2022 website.html
```

```
vgarcia@cis106:~/lab4files$ ls -lhS
total 6.5M
-rw-rw-r-- 1 vgarcia vgarcia 2.5M Feb 22  2022 Linux.pdf
-rw-rw-r-- 1 vgarcia vgarcia 2.1M Feb 22  2022 Ubuntu.pdf
-rw-rw-r-- 1 vgarcia vgarcia 747K Feb 22  2022 document.docx
-rw-rw-r-- 1 vgarcia vgarcia 726K Feb 22  2022 globe.avi
-rw-rw-r-- 1 vgarcia vgarcia 278K Feb 22  2022 csvfile.csv
-rw-rw-r-- 1 vgarcia vgarcia 135K Feb 22  2022 website.html
-rw-rw-r-- 1 vgarcia vgarcia  42K Feb 22  2022 Tux.png
-rw-rw-r-- 1 vgarcia vgarcia  20K Feb 22  2022 countries.json
-rw-rw-r-- 1 vgarcia vgarcia 8.5K Feb 22  2022 sample.xls
-rw-rw-r-- 1 vgarcia vgarcia   76 Feb 22  2022 helloWorld.c
vgarcia@cis106:~/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
vgarcia@cis106:~/lab4files$ ls -lhSgGi
total 6.5M
1484741 -rw-rw-r-- 1 2.5M Feb 22  2022 Linux.pdf
1484792 -rw-rw-r-- 1 2.1M Feb 22  2022 Ubuntu.pdf
1484804 -rw-rw-r-- 1 747K Feb 22  2022 document.docx
1484806 -rw-rw-r-- 1 726K Feb 22  2022 globe.avi
1484803 -rw-rw-r-- 1 278K Feb 22  2022 csvfile.csv
1484810 -rw-rw-r-- 1 135K Feb 22  2022 website.html
1484782 -rw-rw-r-- 1  42K Feb 22  2022 Tux.png
1484801 -rw-rw-r-- 1  20K Feb 22  2022 countries.json
1484808 -rw-rw-r-- 1 8.5K Feb 22  2022 sample.xls
1484807 -rw-rw-r-- 1   76 Feb 22  2022 helloWorld.c
```

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

Question 4

```
vgarcia@cis106:/$ pwd
/
```

```
vgarcia@cis106:/$ cd /usr/share/icons/default/
vgarcia@cis106:/usr/share/icons/default$ pwd
/usr/share/icons/default
```

```
vgarcia@cis106:/usr/share/icons/default$ cd /proc/sys/net/ipv4/
vgarcia@cis106:/proc/sys/net/ipv4$ pwd
/proc/sys/net/ipv4
```

```
vgarcia@cis106:/proc/sys/net/ipv4$ cd -
/usr/share/icons/default
```

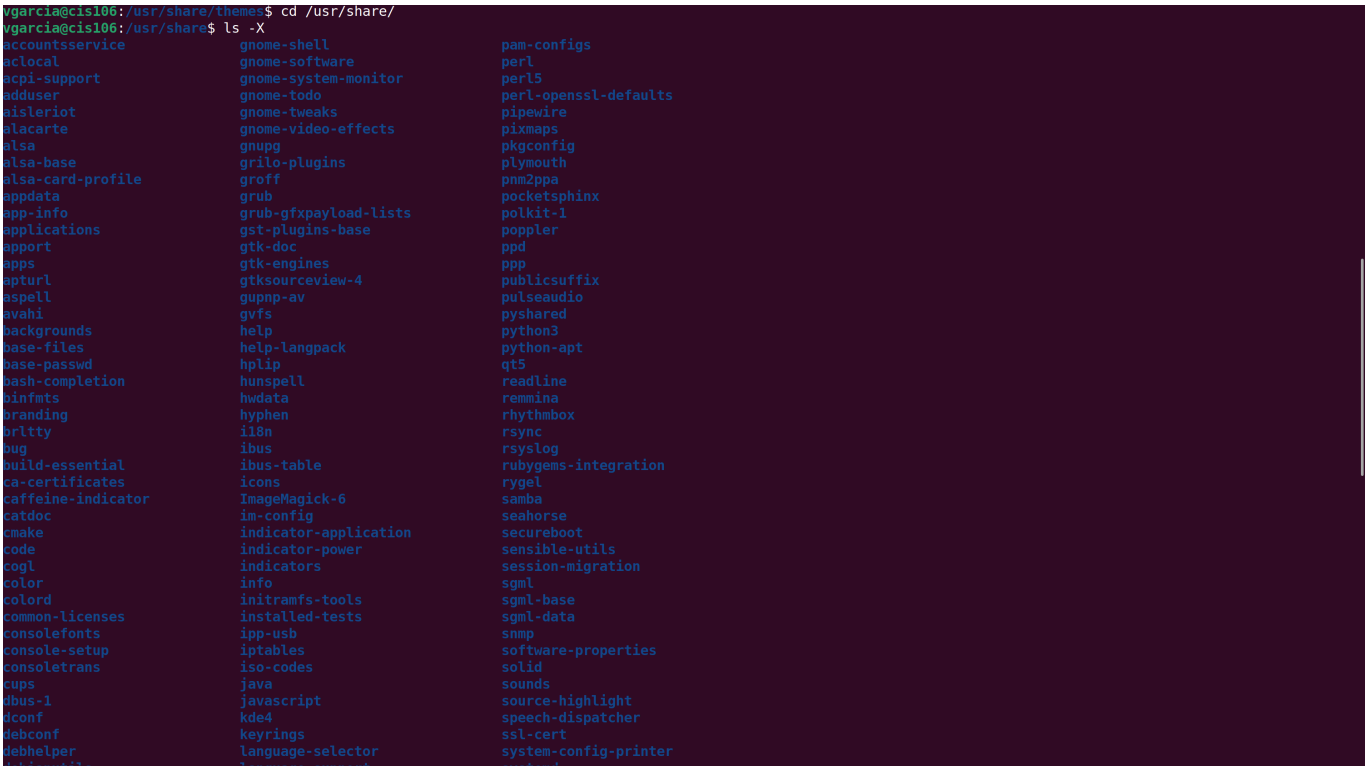
```
vgarcia@cis106:/usr/share/icons/default$ ls /usr/share/backrounds/
ls: cannot access '/usr/share/backrounds/': No such file or directory
vgarcia@cis106:/usr/share/icons/default$ ls /usr/share/backgrounds/
Blue_flower_by_Elena_Stravoravdi.jpg           Jammy-Jellyfish_WP_4096x2304_Grey.png          ubuntu2_by_arman1992.jpg
canvas_by_roytanck.jpg                         jj_dark_by_Hiking93.jpg                        ubuntu_by_arman1992.jpg
Cherry_Tree_in_Lakones_by_elenastravoravdi.jpg jj_light_by_Hiking93.jpg                       ubuntu-default-greyscale-wallpaper.png
contest                                        Mirror_by_Uday_Nakade.jpg                      warty-final-ubuntu.png
DSC2943_by_kcpru.jpg                           Optical_Fibers_in_Dark_by_Elena_Stravoravdi.jpg
```

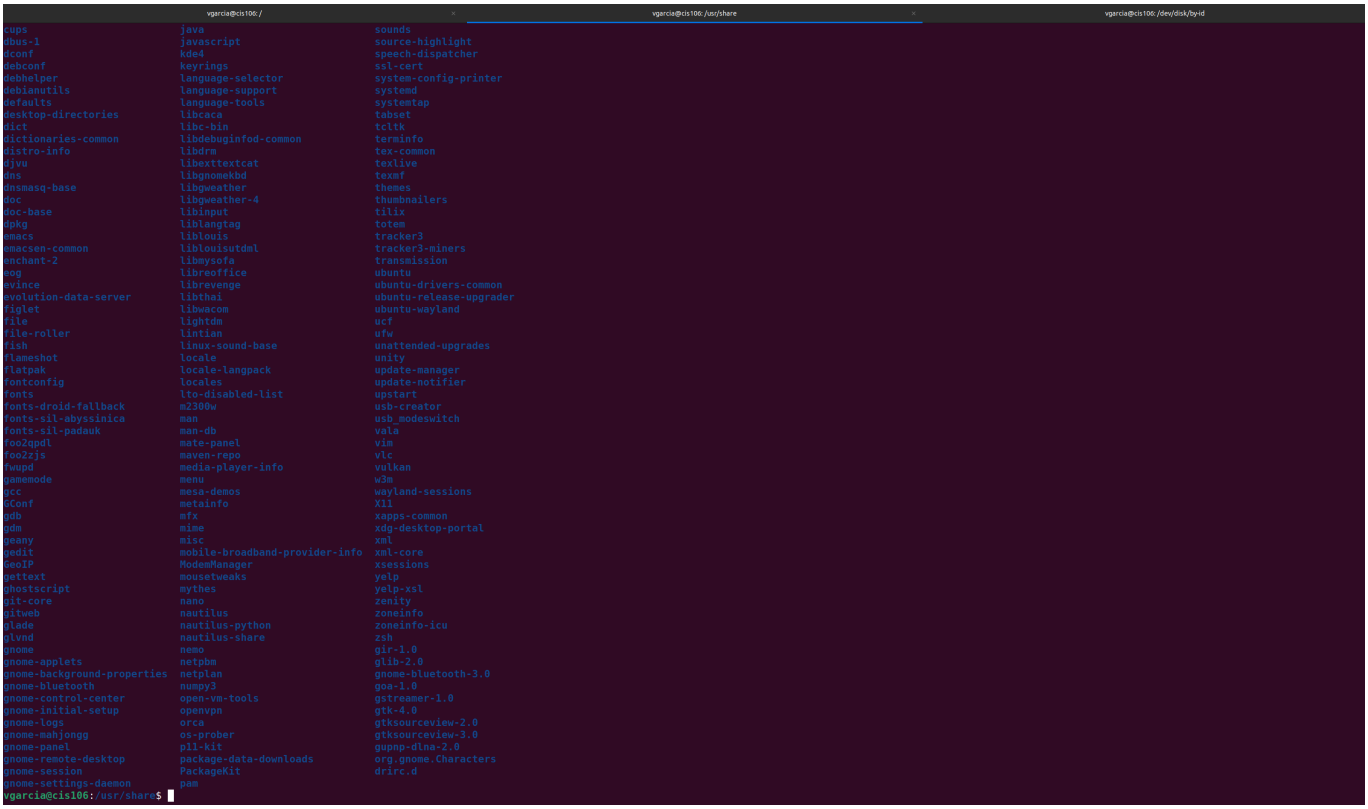
```
vgarcia@cis106:/usr/share/icons/default$ cd
vgarcia@cis106:~$ ls /home/vgarcia/cis106/
cheatsheets  labs  weekReports
```

```
vgarcia@cis106:~$ ls /home/vgarcia/Downloads/
code_1.82.2-1694671812_amd64.deb  lab4files.zip  Ms_Madi  Ms_Madi.zip
```

```
vgarcia@cis106:~$ cd /dev/disk/by-id/
vgarcia@cis106:/dev/disk/by-id$ ls -l
total 0
lrwxrwxrwx 1 root root  9 Oct 21 15:18 ata-VBOX_CD-ROM_VB2-01700376 -> ../../sr0
lrwxrwxrwx 1 root root  9 Oct 21 15:18 ata-VBOX_HARDDISK_VBf8a62091-70be4379 -> ../../sda
lrwxrwxrwx 1 root root 10 Oct 21 15:18 ata-VBOX_HARDDISK_VBf8a62091-70be4379-part1 -> ../../sda1
lrwxrwxrwx 1 root root 10 Oct 21 15:18 ata-VBOX_HARDDISK_VBf8a62091-70be4379-part2 -> ../../sda2
lrwxrwxrwx 1 root root 10 Oct 21 15:18 ata-VBOX_HARDDISK_VBf8a62091-70be4379-part3 -> ../../sda3
```

```
vgarcia@cis106:~$ cd /usr/share/themes/
vgarcia@cis106:/usr/share/themes$ ls -t
Yaru              Yaru-dark-hdpi     Yaru-olive-dark          Yaru-red-dark       Default
Yaru-bark         Yaru-dark-xhdpi    Yaru-prussiangreen       Yaru-sage           Emacs
Yaru-bark-dark    Yaru-hdpi          Yaru-prussiangreen-dark  Yaru-sage-dark      Raleigh
Yaru-blue         Yaru-magenta       Yaru-purple              Yaru-viridian       Adwaita
Yaru-blue-dark    Yaru-magenta-dark  Yaru-purple-dark         Yaru-viridian-dark  Adwaita-dark
Yaru-dark         Yaru-olive         Yaru-red                 Yaru-xhdpi          HighContrast
```


vgarcia@cis106:/usr/share/themes$ cd /usr/share/
vgarcia@cis106:/usr/share$ ls -X
accountsservice
aclocal
acpi-support
adduser
aisleriot
alacarte
alsa
alsa-base
alsa-card-profile
appdata
app-info
applications
apport
apps
apturl
aspell
avahi
backgrounds
base-files
base-passwd
bash-completion
binfmts
branding
brltty
bug
build-essential
ca-certificates
caffeine-indicator
catdoc
cmake
code
cogl
color
colord
common-licenses
consolefonts
console-setup
consoletrans
cups
dbus-1
dconf
debconf
debhelper
gnome-shell
gnome-software
gnome-system-monitor
gnome-todo
gnome-tweaks
gnome-video-effects
gnupg
grilo-plugins
groff
grub
grub-gfxpayload-lists
gst-plugins-base
gtk-doc
gtk-engines
gtksourceview-4
gupnp-av
gvfs
help
help-langpack
hplip
hunspell
hwdata
hyphen
i18n
ibus
ibus-table
icons
ImageMagick-6
im-config
indicator-application
indicator-power
indicators
info
initramfs-tools
installed-tests
ipp-usb
iptables
iso-codes
java
javascript
kde4
keyrings
language-selector
pam-configs
perl
perl5
perl-openssl-defaults
pipewire
pixmaps
pkgconfig
plymouth
pnm2ppa
pocketsphinx
polkit-1
poppler
ppd
ppp
publicsuffix
pulseaudio
pyshared
python3
python-apt
qt5
readline
remmina
rhythmbox
rsync
rsyslog
rubygems-integration
rygel
samba
seahorse
secureboot
sensible-utils
session-migration
sgml
sgml-base
sgml-data
snmp
software-properties
solid
sounds
source-highlight
speech-dispatcher
ssl-cert
system-config-printer


vgarcia@cis106:/
vgarcia@cis106:/usr/share
vgarcia@cis106:/dev/disk/by-id
cups
dbus-1
dconf
debconf
debhelper
debianutils
dsfaults
desktop-directories
dict
dictionaries-common
distro-info
djvu
dns
dnsmasq-base
doc
doc-base
dpkg
emacs
emacsen-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
foo2qpdl
foo2zjs
fwupd
gamemode
gcc
gconf
gdb
gdm
geany
gedit
GeoIP
gettext
ghostscript
git-core
gitweb
glade
glvnd
gnome
gnome-applets
gnome-background-properties
gnome-bluetooth
gnome-control-center
gnome-initial-setup
gnome-logs
gnome-mahjongg
gnome-panel
gnome-remote-desktop
gnome-session
gnome-settings-daemon
java
javascript
kde4
keyrings
language-selector
language-support
language-tools
libcaca
libc-bin
libdebuginfod-common
libdrm
libexttextcat
libgnomekbd
libgweather
libgweather-4
libinput
liblangtag
liblouis
liblouisutdml
libmysofa
libreoffice
librevenge
libthai
libwacom
lightdm
lintian
linux-sound-base
locale
locale-langpack
locales
lto-disabled-list
m2300w
man
man-db
mate-panel
maven-repo
media-player-info
menu
mesa-demos
metainfo
mfx
mime
misc
mobile-broadband-provider-info
ModemManager
mousetweaks
mythes
nano
nautilus
nautilus-python
nautilus-share
nemo
netpbm
netplan
numpy3
open-vm-tools
openvpn
orca
os-prober
p11-kit
package-data-downloads
PackageKit
pam
sounds
source-highlight
speech-dispatcher
ssl-cert
system-config-printer
systemd
systemtap
tabset
tcltk
terminfo
tex-common
texlive
texmf
themes
thumbnailers
tilix
totem
tracker3
tracker3-miners
transmission
ubuntu
ubuntu-drivers-common
ubuntu-release-upgrader
ubuntu-wayland
ucf
ufw
unattended-upgrades
unity
update-manager
update-notifier
upstart
usb-creator
usb_modeswitch
vala
vim
vlc
vulkan
w3m
wayland-sessions
X11
xapps-common
xdg-desktop-portal
xml
xml-core
xsessions
yelp
yelp-xsl
zenity
zoneinfo
zoneinfo-icu
zsh
gir-1.0
glib-2.0
gnome-bluetooth-3.0
goa-1.0
gstreamer-1.0
gtk-4.0
gtksourceview-2.0
gtksourceview-3.0
gupnp-dlna-2.0
org.gnome.Characters
drirc.d
vgarcia@cis106:/usr/share$

Question 5

```
vgarcia@cis106:/$ cd /home/student/desktop/document/Downloads/
bash: cd: /home/student/desktop/document/Downloads/: No such file or directory
vgarcia@cis106:/$ cd /home/student/downloads/
bash: cd: /home/student/downloads/: No such file or directory
vgarcia@cis106:/$ cd /
vgarcia@cis106:/$ pwd
/
vgarcia@cis106:/$ cd /Downloads
bash: cd: /Downloads: No such file or directory
```

```
vgarcia@cis106:/$ cd /usr/share/themes/Adwaita/
vgarcia@cis106:/usr/share/themes/Adwaita$ pwd
/usr/share/themes/Adwaita
vgarcia@cis106:/usr/share/themes/Adwaita$ cd ../../
vgarcia@cis106:/usr/share$ pwd
/usr/share
vgarcia@cis106:/usr/share$ cd ../
vgarcia@cis106:/usr$ cd /
vgarcia@cis106:/$ pwd
/
vgarcia@cis106:/$
```