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Lab 4 Submission

##Question 1

```
Tilix: daakwetee@cis106: /snap/firefox
1: daakwetee@cis106: /snap/firefox v
daakwetee@cis106:~$ pwd
/home/daakwetee
daakwetee@cis106:~$ cd /usr/share/themes/
daakwetee@cis106:/usr/share/themes$ pwd
/usr/share/themes
daakwetee@cis106:/usr/share/themes$ cd /
daakwetee@cis106:/$ cd /snap/firefox/
daakwetee@cis106:/snap/firefox$
```

```
Tilix: daakwetee@cis106: ~/Documents
1: daakwetee@cis106: ~/Documents v
daakwetee@cis106:/snap/firefox$ cd
daakwetee@cis106:~$ cd downloads/
bash: cd: downloads/: No such file or directory
daakwetee@cis106:~$ cd Downloads/
daakwetee@cis106:~/Downloads$ cd ../../
daakwetee@cis106:/home$ pwd
/home
daakwetee@cis106:/home$ cd daakwetee/Documents/
daakwetee@cis106:~/Documents$
```

##Question 2

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

```
1: daakwete@cis106: ~/lab4files  v
daakwete@cis106:~/lab4files$ ls -lhs
total 6.5M
-rw-rw-r-- 1 daakwete daakwete 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 daakwete daakwete 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 daakwete daakwete 747K Feb 22 2022 document.docx
-rw-rw-r-- 1 daakwete daakwete 726K Feb 22 2022 globe.avi
-rw-rw-r-- 1 daakwete daakwete 278K Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 daakwete daakwete 135K Feb 22 2022 website.html
-rw-rw-r-- 1 daakwete daakwete 42K Feb 22 2022 Tux.png
-rw-rw-r-- 1 daakwete daakwete 20K Feb 22 2022 countries.json
-rw-rw-r-- 1 daakwete daakwete 8.5K Feb 22 2022 sample.xls
-rw-rw-r-- 1 daakwete daakwete 76 Feb 22 2022 helloWorld.c
daakwete@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
daakwete@cis106:~/lab4files$ ls -lhSgGi
total 6.5M
525616 -rw-rw-r-- 1 2.5M Feb 22 2022 Linux.pdf
525619 -rw-rw-r-- 1 2.1M Feb 22 2022 Ubuntu.pdf
525622 -rw-rw-r-- 1 747K Feb 22 2022 document.docx
525623 -rw-rw-r-- 1 726K Feb 22 2022 globe.avi
525621 -rw-rw-r-- 1 278K Feb 22 2022 csvfile.csv
525626 -rw-rw-r-- 1 135K Feb 22 2022 website.html
525617 -rw-rw-r-- 1 42K Feb 22 2022 Tux.png
525620 -rw-rw-r-- 1 20K Feb 22 2022 countries.json
525625 -rw-rw-r-- 1 8.5K Feb 22 2022 sample.xls
525624 -rw-rw-r-- 1 76 Feb 22 2022 helloWorld.c
```

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

##Question 4

```
1: daakwete@cis106: /dev/disk/by-id  ✓

daakwete@cis106:~$ pwd
/home/daakwete
daakwete@cis106:~$ cd /usr/share/icons/default
daakwete@cis106:/usr/share/icons/default$ cd
daakwete@cis106:~$ cd /procs/sys/net/ipv4/route
bash: cd: /procs/sys/net/ipv4/route: No such file or directory
daakwete@cis106:~$ cd /proc/sys/net/ipv4/route
daakwete@cis106:/proc/sys/net/ipv4/route$ cd -
/home/daakwete
daakwete@cis106:~$ 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
daakwete@cis106:~$ cd
daakwete@cis106:~$ ls cis106
CheatSheets  FinalProject  Labs  weekReport
daakwete@cis106:~$ ls Downloads
code_1.82.2-1694671812_amd64.deb  lab4files.zip
dark-minimal-mountains.png       wallhaven-ex9gwo_2560x1440.png
```



```

1: daakwetee@cis106: /dev/disk/by-id  v
daakwetee@cis106:~$ cd /dev/disk/by-id
daakwetee@cis106:/dev/disk/by-id$ ls -la ~/
total 180
drwxr-x--- 24 daakwetee daakwetee 4096 Oct 26 22:17 .
drwxr-xr-x  3 root      root      4096 Sep 28 22:46 ..
drwx----- 2 daakwetee daakwetee 4096 Oct 12 02:45 .balsa
-rw----- 1 daakwetee daakwetee 3288 Oct 27 01:36 .bash_history
-rw-r--r-- 1 daakwetee daakwetee  220 Sep 28 22:46 .bash_logout
-rw-r--r-- 1 daakwetee daakwetee 3771 Sep 28 22:46 .bashrc
drwx----- 20 daakwetee daakwetee 4096 Oct 12 00:57 .cache
drwxrwxr-x  7 daakwetee daakwetee 4096 Oct 25 16:42 cis106
-rw-rw-r-- 1 daakwetee daakwetee 3520 Oct 11 21:11 .cis106.png
drwx----- 23 daakwetee daakwetee 4096 Oct 26 22:45 .config
drwxr-xr-x  2 daakwetee daakwetee 4096 Oct 11 21:17 Desktop
drwxr-xr-x  2 daakwetee daakwetee 4096 Sep 28 23:21 Documents
drwxrwxr-x  3 daakwetee daakwetee 4096 Sep 29 00:08 .dotnet
drwxr-xr-x  2 daakwetee daakwetee 4096 Oct 26 22:15 Downloads
drwxrwxr-x  2 daakwetee daakwetee 20480 Oct 11 23:31 .fonts
-rw-rw-r-- 1 daakwetee daakwetee   92 Oct 12 22:07 gitcommands.txt
-rw-rw-r-- 1 daakwetee daakwetee   66 Sep 29 00:53 .gitconfig
drwx----- 2 daakwetee daakwetee 4096 Oct 12 01:49 .gnupg
drwxrwxr-x  2 daakwetee daakwetee 4096 Feb 22 2022 lab4files
-rw----- 1 daakwetee daakwetee   20 Oct 12 02:25 .lessht
drwx----- 4 daakwetee daakwetee 4096 Sep 29 01:15 .local
drwx----- 2 daakwetee daakwetee 4096 Oct 12 01:49 mail
-rw----- 1 daakwetee daakwetee    0 Oct 12 01:49 mailbox
drwxr-xr-x  2 daakwetee daakwetee 4096 Sep 28 23:21 Music
drwxr-xr-x  2 daakwetee daakwetee 4096 Oct 11 21:01 Pictures
drwx----- 3 daakwetee daakwetee 4096 Sep 29 00:07 .pki
-rw-r--r-- 1 daakwetee daakwetee  807 Sep 28 22:46 .profile
drwxr-xr-x  2 daakwetee daakwetee 4096 Sep 28 23:21 Public
drwx----- 5 daakwetee daakwetee 4096 Sep 29 00:06 snap
drwx----- 2 daakwetee daakwetee 4096 Sep 29 00:35 .ssh
-rw-r--r-- 1 daakwetee daakwetee    0 Sep 28 23:51 .sudo_as_admin_successful
drwxr-xr-x  2 daakwetee daakwetee 4096 Sep 28 23:21 Templates
-rw-r----- 1 daakwetee daakwetee    6 Oct 26 21:57 .vboxclient-clipboard-tty2-control.pid
-rw-r----- 1 daakwetee daakwetee    5 Oct 26 21:57 .vboxclient-clipboard-tty2-service.pid
-rw-r----- 1 daakwetee daakwetee    6 Oct 26 21:57 .vboxclient-draganddrop-tty2-control.pid
-rw-r----- 1 daakwetee daakwetee    5 Oct 26 21:57 .vboxclient-draganddrop-tty2-service.pid
-rw-r----- 1 daakwetee daakwetee    6 Oct 26 21:57 .vboxclient-hostversion-tty2-control.pid
-rw-r----- 1 daakwetee daakwetee    6 Oct 26 21:57 .vboxclient-seamless-tty2-control.pid
-rw-r----- 1 daakwetee daakwetee    5 Oct 26 21:57 .vboxclient-seamless-tty2-service.pid
-rw-r----- 1 daakwetee daakwetee    6 Oct 26 21:57 .vboxclient-vmvga-session-tty2-control.pid
-rw-r----- 1 daakwetee daakwetee    5 Oct 26 21:57 .vboxclient-vmvga-session-tty2-service.pid
drwxr-xr-x  2 daakwetee daakwetee 4096 Sep 28 23:21 Videos
drwxrwxr-x  4 daakwetee daakwetee 4096 Sep 29 00:07 .vscode

```

```
daakwete@cis106:/dev/disk/by-id$ ls -lt /usr/share/themes
total 120
drwxr-xr-x 7 root root 4096 Aug 7 18:54 Yaru
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-bark
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-bark-dark
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-blue
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-blue-dark
drwxr-xr-x 7 root root 4096 Aug 7 18:54 Yaru-dark
drwxr-xr-x 3 root root 4096 Aug 7 18:54 Yaru-dark-hdpi
drwxr-xr-x 3 root root 4096 Aug 7 18:54 Yaru-dark-xhdpi
drwxr-xr-x 3 root root 4096 Aug 7 18:54 Yaru-hdpi
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-magenta
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-magenta-dark
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-olive
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-olive-dark
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-prussiangreen
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-prussiangreen-dark
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-purple
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-purple-dark
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-red
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-red-dark
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-sage
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-sage-dark
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-viridian
drwxr-xr-x 5 root root 4096 Aug 7 18:54 Yaru-viridian-dark
drwxr-xr-x 3 root root 4096 Aug 7 18:54 Yaru-xhdpi
drwxr-xr-x 4 root root 4096 Aug 7 18:54 Default
drwxr-xr-x 4 root root 4096 Aug 7 18:54 Emacs
drwxr-xr-x 3 root root 4096 Aug 7 18:54 Raleigh
drwxr-xr-x 4 root root 4096 Aug 7 18:54 Adwaita
drwxr-xr-x 4 root root 4096 Aug 7 18:54 Adwaita-dark
drwxr-xr-x 4 root root 4096 Aug 7 18:54 HighContrast
```

```

daakwetee@cis106:/dev/disk/by-id$ ls -X /usr/share
accountsservice      gnome-tweaks          perl-openssl-defaults
aclocal               gnome-video-effects  php
acpi-support          gnupg                 pipewire
adduser               grilo-plugins         pixmaps
aisleriot              groff                 pkgconfig
alacarte              grub                  plymouth
alsa                  grub-gfxpayload-lists pnm2ppa
alsa-base             gst-plugins-base     pocketchinx
alsa-card-profile     gtk-doc               polkit-1
appdata               gtk-engines           poppler
app-info              gtksourceview-4       ppp
applications          guile                  ppp
appport               gupnp-av              publicsuffix
apps                  gvfs                   pulseaudio
apturl                help                   pyshared
aspell                help-langpack          python3
avahi                 hplip                  python-apt
backgrounds           hunspell               qlonging-categories5
balsa                 hwdata                 qt5
base-files            hyphen                 rainloop
base-passwd           i18n                   readline
bash-completion       ibus                   remmina
binfmts               ibus-table             rhythmbox
branding              icons                  rig
brltty                ImageMagick-6          rsync
bug                   im-config              rsyslog
build-essential       indicator-application  rubygems-integration
ca-certificates       indicator-power        rygel
caffeine-indicator    indicators             samba
catdoc                info                   seahorse
cmake                 initramfs-tools       secureboot
code                  installed-tests       sensible-utils
cogl                  ipp-usb                session-migration
color                 iptables               sgml
colord                iso-codes              sgml-base
common-licenses       java                   sgml-data
consolefonts          javascript             snmp
console-setup         kconf_update           software-properties
consoletrans          kde4                   solid
cowsay                keyrings               sounds
cups                  kf5                    source-highlight
dbus-1                knotifications5        speech-dispatcher
dconf                 kservices5             ssl-cert
debconf               kservicetypes5         system-config-printer
debhelper             language-selector      systemd
debianutils           language-support       systemtap
defaults              language-tools         tabset

```

```

desktop-directories      libcaca                  tcltk
dict                     libc-bin                terminfo
dictionaries-common      libdebuginfod-common   tex-common
distro-info              libdrm                  texlive
djvu                     libexttextcat           texmf
dns                      libgnomekbd             themes
dnsmasq-base             libgweather             thumbnailers
doc                      libgweather-4           tilix
doc-base                 libinput                totem
dpkg                     liblangtag              tracker3
emacs                    liblouis                 tracker3-miners
emacsens-common           liblouisutdm1           transmission
enchant-2                libmysofa                ubuntu
eog                      libreoffice              ubuntu-drivers-common
epiphany-browser          libvenge                 ubuntu-release-upgrader
evince                    libthai                  ubuntu-wayland
evolution-data-server    libwacom                 ucf
ffmpeg                   lightdm                  ufw
figlet                    lintian                  unattended-upgrades
file                     linux-sound-base         unity
file-roller              locale                   update-manager
fish                      locale-langpack          update-notifier
flameshot                 locales                  upstart
flatpak                  lollypop                 usb-creator
fontconfig                lto-disabled-list        usb_modeswitch
fonts                     m2300w                   vala
fonts-droid-fallback      man                       vim
fonts-sil-abyssinica      man-db                   vlc
fonts-sil-padauk          mate-panel                vulkan
foo2qpd1                  maven-repo               w3m
foo2zjs                    media-player-info         wayland-sessions
fwupd                     menu                      X11
gamemode                  mesa-demos                xapps-common
games                     metainfo                  xdg-desktop-portal
gcc                        mfx                       xml
GConf                     mime                      xml-core
gdb                       misc                      xsessions
gdm                       mobile-broadband-provider-info
gedit                     ModemManager              yelp
gettext                   mousetweaks               yelp-xsl
ghostscript               mythes                    zenity
git-core                  nano                      zoneinfo
gitweb                    nautilus                  zoneinfo-icu
glade                     nautilus-python          zsh
glvnd                     nautilus-share            gir-1.0
gnome                     nemo                      glib-2.0
gnome-applets             netpbm                    gnome-bluetooth-3.0
gnome-background-properties netplan                   goa-1.0
gnome-bluetooth           nginx                      gstreamer-1.0
gnome-control-center      openal                    gtk-4.0
gnome-initial-setup       open-vm-tools             gtksourceview-2.0
gnome-logs                 openvpn                   gtksourceview-3.0
gnome-mahjongg            orca                      gupnp-dlna-2.0
gnome-panel               os-prober                 php8.1-common
gnome-remote-desktop      p11-kit                   php8.1-curl
gnome-session              package-data-downloads    php8.1-opcache
gnome-settings-daemon     PackageKit                 php8.1-readline
gnome-shell                pam                        php8.1-xml
gnome-software             pam-configs                org.gnome.Characters
gnome-system-monitor      perl                      drirc.d
gnome-todo                 perl5
daakwetee@cis106:/dev/disk/by-id$

```



```
daakwetee@cis106:~$ cd /  
daakwetee@cis106:/$ cd home  
daakwetee@cis106:/home$ cd daakwetee  
daakwetee@cis106:~$ cd Downloads  
daakwetee@cis106:~/Downloads$ pwd  
/home/daakwetee/Downloads  
daakwetee@cis106:~/Downloads$
```

##Question 5

```
daakwetee@cis106:~$ cd /usr/share/themes/Adwaita  
daakwetee@cis106:/usr/share/themes/Adwaita$ cd ../../../../  
daakwetee@cis106:/$ cd /home/daakwetee/Documents  
daakwetee@cis106:~/Documents$ pwd  
/home/daakwetee/Documents  
daakwetee@cis106:~/Documents$
```