
Name: Diwani Akwetee Course: CIS 106 Semester: Fall 2023

Lab 4 Submission

Question 1

```
Tilix: daakwetee@cis106: /snap/firefox
1: daakwetee@cis106: /snap/firefox
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
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: daakwete@cis106: ~/lab4files ▾

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

```
1: daakwete@cis106: ~/lab4files ▾

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 -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
daakwetee@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
```

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

Question 4

```

1: daakwetee@cis106: /dev/disk/by-id  v
daakwetee@cis106:~$ pwd
/home/daakwetee
daakwetee@cis106:~$ cd /usr/share/icons/default
daakwetee@cis106:/usr/share/icons/default$ cd
daakwetee@cis106:~$ cd /procs/sys/net/ipv4/route
bash: cd: /procs/sys/net/ipv4/route: No such file or directory
daakwetee@cis106:~$ cd /proc/sys/net/ipv4/route
daakwetee@cis106:/proc/sys/net/ipv4/route$ cd -
/home/daakwetee
daakwetee@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
daakwetee@cis106:~$ cd
daakwetee@cis106:~$ ls cis106
CheatSheets  FinalProject  Labs  weekReport
daakwetee@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

```

```

daakwetee@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                publicsuffix
appport             gupnp-av             pulseaudio
apps                gvfs                  pyshared
apturl              help                  python3
aspell              help-langpack         python-apt
avahi               hplip                 qlonging-categories5
backgrounds          hunspell              qt5
balsa               hwdata                rainloop
base-files           hyphen                readline
base-passwd          i18n                  remmina
bash-completion      ibus                  rhythmbox
binfmts              ibus-table            rig
branding             icons                 rsync
brltty              ImageMagick-6         rsyslog
bug                  im-config             rubygems-integration
build-essential      indicator-application  rygel
ca-certificates      indicator-power        samba
caffeine-indicator   indicators             seahorse
catdoc               info                  secureboot
cmake                initramfs-tools       sensible-utils
code                 installed-tests       session-migration
cogl                 ipp-usb               sgml
color                iptables              sgml-base
colord               iso-codes              sgml-data
common-licenses      java                  snmp
consolefonts         javascript            software-properties
console-setup        kconf_update          solid
consoletrans         kde4                  sounds
cowsay               keyrings              source-highlight
cups                 kf5                   speech-dispatcher
dbus-1               knotifications5       ssl-cert
dconf                kservices5            system-config-printer
debconf              kservicetypes5        systemd
debhelper            language-selector     systemtap
debianutils          language-support      tabset
defaults             language-tools

```

```

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
foo2qpd                  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
gettext                  mousetweaks
ghostscript              mythes
git-core                  nano
gitweb                   nautilus
glade                    nautilus-python
glvnd                    nautilus-share
gnome                     nemo
gnome-applets            netpbm
gnome-background-properties
gnome-bluetooth          netplan
gnome-control-center     nginx
gnome-initial-setup      openal
gnome-logs               open-vm-tools
gnome-mahjongg           openvpn
gnome-panel              orca
gnome-remote-desktop     os-prober
gnome-session             p11-kit
gnome-settings-daemon    package-data-downloads
gnome-shell              PackageKit
gnome-software            pam
gnome-system-monitor     pam-configs
gnome-todo               perl
daakwetee@cis106:/dev/disk/by-id$ perl5

```


Question 5

```
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$
```

```
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$
```