

Name: Seth Warren Course: cis106 Semester: Fall 23

Lab 4 The linux FS

Question 1

```
1/1  +  ... rren@cis106: /snap/firefox  🔍  ☰  -  □  ×

1: sjkincherlo-warren@cis106: /snap/firefox  □  ×

sjkincherlo-warren@cis106:~$ pwd
/home/sjkincherlo-warren
sjkincherlo-warren@cis106:~$ cd
sjkincherlo-warren@cis106:~$ ls
cis106  Documents  gitcommands.txt  Pictures  snap  Videos
Desktop  Downloads  Music            Public    Templates
sjkincherlo-warren@cis106:~$ cd /usr/share/themes
sjkincherlo-warren@cis106:/usr/share/themes$ pwd
/usr/share/themes
sjkincherlo-warren@cis106:/usr/share/themes$ cd /
sjkincherlo-warren@cis106:/$ cd /snap/firefox/
sjkincherlo-warren@cis106:/snap/firefox$
```

```
1/1  +  ... rren@cis106: ~/Documents  🔍  ☰  -  □  ×

1: sjkincherlo-warren@cis106: ~/Documents  □  ×

sjkincherlo-warren@cis106:/snap/firefox$ cd
sjkincherlo-warren@cis106:~$ cd /Downloads
bash: cd: /Downloads: No such file or directory
sjkincherlo-warren@cis106:~$ cd Downloads/
sjkincherlo-warren@cis106:~/Downloads$ cd
sjkincherlo-warren@cis106:~$ cd
sjkincherlo-warren@cis106:~$ cd ../../
sjkincherlo-warren@cis106:/$ pwd
/
sjkincherlo-warren@cis106:/$ cd Documents/
bash: cd: Documents/: No such file or directory
sjkincherlo-warren@cis106:/$ cd home/
sjkincherlo-warren@cis106:/home$ pwd
/home
sjkincherlo-warren@cis106:/home$ cd Documents/
bash: cd: Documents/: No such file or directory
sjkincherlo-warren@cis106:/home$ cd sjkincherlo-warren/Documents
sjkincherlo-warren@cis106:~/Documents$
```

Question 2

```

1: sjkincherlo-warren@cis106: ~/lab4files
sjkincherlo-warren@cis106:~$ cd /usr/share/
sjkincherlo-warren@cis106:/usr/share$ ls /home/sjkincherlo-warren/labfiles/
ls: cannot access '/home/sjkincherlo-warren/labfiles/': No such file or directory
sjkincherlo-warren@cis106:/usr/share$ ls /home/sjkincherlo-warren/lab4files/
countries.json  document.docx  helloWorld.c  sample.xls  Ubuntu.pdf
csvfile.csv    globe.avi      Linux.pdf     Tux.png    website.html
sjkincherlo-warren@cis106:/usr/share$ cd ~/lab4files/
sjkincherlo-warren@cis106:~/lab4files$ ls -l
total 6580
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 20471 Feb 22 2022 countries.json
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 284042 Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 764176 Feb 22 2022 document.docx
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 742478 Feb 22 2022 globe.avi
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 76 Feb 22 2022 helloWorld.c
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 2600138 Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 8704 Feb 22 2022 sample.xls
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 42777 Feb 22 2022 Tux.png
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 2114053 Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 137453 Feb 22 2022 website.html
sjkincherlo-warren@cis106:~/lab4files$ ls -lh
countries.json  document.docx  helloWorld.c  sample.xls  Ubuntu.pdf
csvfile.csv    globe.avi      Linux.pdf     Tux.png    website.html
sjkincherlo-warren@cis106:~/lab4files$ ls -lh
total 6.5M
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 20K Feb 22 2022 countries.json
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 278K Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 747K Feb 22 2022 document.docx
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 726K Feb 22 2022 globe.avi
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 76 Feb 22 2022 helloWorld.c
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 8.5K Feb 22 2022 sample.xls
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 42K Feb 22 2022 Tux.png
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 135K Feb 22 2022 website.html
sjkincherlo-warren@cis106:~/lab4files$ ls -lhS
total 6.5M
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 747K Feb 22 2022 document.docx
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 726K Feb 22 2022 globe.avi
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 278K Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 135K Feb 22 2022 website.html
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 42K Feb 22 2022 Tux.png
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 20K Feb 22 2022 countries.json
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 8.5K Feb 22 2022 sample.xls
-rw-rw-r-- 1 sjkincherlo-warren sjkincherlo-warren 76 Feb 22 2022 helloWorld.c
sjkincherlo-warren@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
sjkincherlo-warren@cis106:~/lab4files$ ls -lhSgGi
total 6.5M
835335 -rw-rw-r-- 1 2.5M Feb 22 2022 Linux.pdf
835339 -rw-rw-r-- 1 2.1M Feb 22 2022 Ubuntu.pdf
835344 -rw-rw-r-- 1 747K Feb 22 2022 document.docx
835708 -rw-rw-r-- 1 726K Feb 22 2022 globe.avi
835341 -rw-rw-r-- 1 278K Feb 22 2022 csvfile.csv
836149 -rw-rw-r-- 1 135K Feb 22 2022 website.html
835237 -rw-rw-r-- 1 42K Feb 22 2022 Tux.png
835337 -rw-rw-r-- 1 42K Feb 22 2022 Tux.png
835340 -rw-rw-r-- 1 20K Feb 22 2022 countries.json
836136 -rw-rw-r-- 1 8.5K Feb 22 2022 sample.xls
835803 -rw-rw-r-- 1 76 Feb 22 2022 helloWorld.c
sjkincherlo-warren@cis106:~/lab4files$ ls -Xr
sample.xls  Ubuntu.pdf  countries.json  document.docx  helloWorld.c
Tux.png    Linux.pdf  website.html  csvfile.csv    globe.avi
sjkincherlo-warren@cis106:~/lab4files$

```

Question 4


```

[+] sjkincherlo-warren@cis106: /usr/share
HighContrast  Yaru-blue      Yaru-hdpt      Yaru-prussiangreen  Yaru-red-dark  Yaru-xhdp1
sjkincherlo-warren@cis106: /usr/share/themes$ cd -
/home/sjkincherlo-warren
sjkincherlo-warren@cis106:~$ cd usr/share/
bash: cd: usr/share/: No such file or directory
sjkincherlo-warren@cis106:~$ cd /usr/share/
sjkincherlo-warren@cis106: /usr/share$ ls -X
accountsservice      GConf              libdrm              rsyslog
aclocal               gdb                libexttextcat       rubygems-integration
acpi-support          gdm                libgnomekbd          rygel
adduser               geany              libgweather          samba
aisleriot             geary              libgweather-4        seahorse
alacarte              gedit              libinput              secureboot
alsa                  GeoIP              liblangtag            sensible-utils
alsa-base             gettext            liblouis              session-migration
alsa-card-profile     ghostscript         liblouisutdml         sgml
appdata               git-core           libmysofa             sgml-base
app-info              gitweb             libreoffice           sgml-data
applications          glade              librevenge            snmp
apport                glvnd              libthai               software-properties
apps                  gnome              libwacom              solid
apturl                gnome-applets      lightdm               sounds
aspell                gnome-background-properties  lintian               source-highlight
avahi                  gnome-bluetooth   linux-sound-base      speech-dispatcher
backgrounds            gnome-control-center  locale                ssl-cert
base-files             gnome-initial-setup  locale-langpack       system-config-printer
base-passwd            gnome-logs          locales               systemd
bash-completion        gnome-mahjongg      lto-disabled-list     systemtap
binfmts                gnome-panel         lxmusic               tabset
branding                gnome-remote-desktop  m2300w               tcltk
brltty                 gnome-session       man                   terminfo
bug                     gnome-settings-daemon  man-db                tex-common
build-essential        gnome-shell          mate-panel             texlive
ca-certificates        gnome-software       maven-repo            texmf

```

```

caffeine-indicator  gnome-system-monitor  media-player-info     themes
catdoc              gnome-todo             menu                   thumbnailers
cmake               gnome-tweaks           mesa-demos            tilix
code                gnome-video-effects   metainfo              totem
cogl                gnupg                  mfx                    tracker3
color               grilo-plugins          nime                   tracker3-miners
colord              groff                  misc                   transmission
common-licenses    grub                   mobile-broadband-provider-info  ubuntu
consolefonts        grub-gfxpayload-lists  ModemManager          ubuntu-drivers-common
console-setup       gst-plugins-base       mousetweaks           ubuntu-release-upgrader
consoletrans        gtk-doc                mythes                 ubuntu-wayland
cowsay              gtk-engines            nano                   ucf
cups                gtksourceview-4        nautilus               ufw
dbus-1              guile                  nautilus-python       unattended-upgrades
dconf               gupnp-av               nautilus-share         unity
debconf             gvfs                   nemo                   update-manager
debhelper           help                   netpbm                 update-notifier
debianutils         help-langpack          netplan                upstart
defaults            hplip                  numpy3                 usb-creator
desktop-directories hunspell               open-vm-tools          usb_modeswitch

```

```

sjkincherlo-warren@cis106: /usr/share

caffeine-indicator  gnome-system-monitor  media-player-info     themes
catdoc              gnome-todo             menu                   thumbnailers
cmake               gnome-tweaks           mesa-demos            tilix
code                gnome-video-effects   metainfo              totem
cogl                gnupg                  mfx                    tracker3
color               grilo-plugins          nime                   tracker3-miners
colord              groff                  misc                   transmission
common-licenses    grub                   mobile-broadband-provider-info  ubuntu
consolefonts        grub-gfxpayload-lists  ModemManager          ubuntu-drivers-common
console-setup       gst-plugins-base       mousetweaks           ubuntu-release-upgrader
consoletrans        gtk-doc                mythes                 ubuntu-wayland
cowsay              gtk-engines            nano                   ucf
cups                gtksourceview-4        nautilus               ufw
dbus-1              guile                  nautilus-python       unattended-upgrades
dconf               gupnp-av               nautilus-share         unity
debconf             gvfs                   nemo                   update-manager
debhelper           help                   netpbm                 update-notifier
debianutils         help-langpack          netplan                upstart
defaults            hplip                  numpy3                 usb-creator
desktop-directories hunspell               open-vm-tools          usb_modeswitch
dict                hwdata                 openvpn               vala
dictionaries-common hyphen                 orca                  vim
distro-info         i18n                   os-prober              vlc
djvu                 ibus                    p11-kit                vulkan
dns                  ibus-table             package-data-downloads w3m
dnsmasq-base        icons                   PackageKit             wayland-sessions
doc                  ImageMagick-6          pam                     X11
doc-base            im-config              pam-configs            xapps-common
dpkg                 indicator-application  perl                   xdg-desktop-portal
emacs                indicator-power        perl5                   xfaces
emacs-en-common      indicators              perl-openssl-defaults  xml
enchant-2            info                    pipewire               xml-core
eog                  initramfs-tools        pixmaps                xms2
epiphany-browser     installed-tests        pkgconfig              xsessions
evince               ippp-usb               plymouth                yelp
evolution-data-server iptables                pnm2ppa                yelp-xsl
figlet               iso-codes               pocketsphinx           zenity
file                  java                    polkit-1                zoneinfo
file-roller           javascript              poppler                 zoneinfo-icu
fish                  kconf_update           ppd                      zsh
flameshot            kde4                    ppp                      gir-1.0
flatpak              keyrings                publicsuffix            glib-2.0
fontconfig            kf5                      pulseaudio              gnome-bluetooth-3.0
fonts                 knotifications5         pyshared                goa-1.0
fonts-droid-fallback kservices5              python3                 gstreamer-1.0
fonts-sil-abyssinica kservicetypes5          python-apt              gtk-4.0
fonts-sil-padauk      language-selector       qllogging-categories5   gtksourceview-2.0
foo2qpd1              language-support        qt5                     gtksourceview-3.0
foo2zjs               language-tools          readline                gupnp-dlna-2.0
fwupd                 libaudio2               remmina                 org.gnome.Characters
gamemode              libcaca                  rhythmbox                drirc.d
games                 libc-bin                rig                      rsync
gcc                   libdebuginfod-common    rsync

```

Question 5


```
1 / 1  +  [ ]  [ ]  Tilix: sjkincherlo-warren@cis106: ~/Downloads

1: sjkincherlo-warren@cis106: ~/Downloads  v

sjkincherlo-warren@cis106:~/Downloads$ cd../../../../
bash: cd../../../../: No such file or directory
sjkincherlo-warren@cis106:~/Downloads$ cd ../../..
sjkincherlo-warren@cis106:/home$ cd -
/home/sjkincherlo-warren/Downloads
sjkincherlo-warren@cis106:~/Downloads$ cd ..
sjkincherlo-warren@cis106:~$ cd ..
sjkincherlo-warren@cis106:/home$ cd ..
sjkincherlo-warren@cis106:/$ cd /home/
sjkincherlo-warren@cis106:/home$ cd /home/sjkincherlo-warren/
sjkincherlo-warren@cis106:~$ cd /home/sjkincherlo-warren/Downloads
sjkincherlo-warren@cis106:~/Downloads$ pwd
/home/sjkincherlo-warren/Downloads
sjkincherlo-warren@cis106:~/Downloads$
```

```
1 / 1  +  [ ]  [ ]  Tilix: sjkincherlo-warren@cis106: /usr/share/themes/Adwaita

1: sjkincherlo-warren@cis106: /usr/share/themes/Adwaita  v

sjkincherlo-warren@cis106:~/Downloads$ cd ..
sjkincherlo-warren@cis106:~$ cd /usr/share/
sjkincherlo-warren@cis106:/usr/share$ cd /themes/Adwaita
bash: cd: /themes/Adwaita: No such file or directory
sjkincherlo-warren@cis106:/usr/share$ cd /usr/share/themes/Adwaita
sjkincherlo-warren@cis106:/usr/share/themes/Adwaita$ pwd
/usr/share/themes/Adwaita
sjkincherlo-warren@cis106:/usr/share/themes/Adwaita$
```