Lab 4

Question 1

```
jaleman2@jaleman2-VirtualBox:~$ pwd
/home/jaleman2
jaleman2@jaleman2-VirtualBox:~$ cd /usr/share/themes/
jaleman2@jaleman2-VirtualBox:/usr/share/themes$ pwd
/usr/share/themes
jaleman2@jaleman2-VirtualBox:/usr/share/themes$ cd /
jaleman2@jaleman2-VirtualBox:/$ cd /snap/firefox/
jaleman2@jaleman2-VirtualBox:/snap/firefox$
```

Question 2

```
jaleman2@jaleman2-VirtualBox:~$ cd /usr/share/
jaleman2@jaleman2-VirtualBox:/usr/share$ ls ~/lab4files/
                document.docx helloWorld.c
                                             sample.xls
countries.ison
                                                          Ubuntu.pdf
csvfile.csv
                globe.avi
                               Linux.pdf
                                                          website.ht
                                             Tux.png
ml
jaleman2@jaleman2-VirtualBox:~/lab4files$ ls -lh
total 6.5M
-rw-rw-r-- 1 jaleman2 jaleman2 20K Feb 22
                                            2022 countries.json
-rw-rw-r-- 1 jaleman2 jaleman2 278K Feb 22
                                            2022 csvfile.csv
-rw-rw-r-- 1 jaleman2 jaleman2 747K Feb 22
                                            2022 document.docx
-rw-rw-r-- 1 jaleman2 jaleman2 726K Feb 22
                                            2022 globe.avi
-rw-rw-r-- 1 jaleman2 jaleman2
                                 76 Feb 22
                                            2022 helloWorld.c
-rw-rw-r-- 1 jaleman2 jaleman2 2.5M Feb 22
                                            2022 Linux.pdf
-rw-rw-r-- 1 jaleman2 jaleman2 8.5K Feb 22
                                            2022 sample.xls
-rw-rw-r-- 1 jaleman2 jaleman2 42K Feb 22
                                            2022 Tux.png
-rw-rw-r-- 1 jaleman2 jaleman2 2.1M Feb 22
                                            2022 Ubuntu.pdf
-rw-rw-r-- 1 jaleman2 jaleman2 135K Feb 22
                                            2022 website.html
jaleman2@jaleman2-VirtualBox:~/lab4files$ ls -lhS
total 6.5M
-rw-rw-r-- 1 jaleman2 jaleman2 2.5M Feb 22
                                             2022 Linux.pdf
-rw-rw-r-- 1 jaleman2 jaleman2 2.1M Feb 22
                                             2022 Ubuntu.pdf
-rw-rw-r-- 1 jaleman2 jaleman2 747K Feb 22
                                             2022 document.docx
-rw-rw-r-- 1 jaleman2 jaleman2 726K Feb 22
                                             2022 globe.avi
-rw-rw-r-- 1 jaleman2 jaleman2 278K Feb 22
                                             2022 csvfile.csv
-rw-rw-r-- 1 jaleman2 jaleman2 135K Feb 22
                                             2022 website.html
-rw-rw-r-- 1 jaleman2 jaleman2
                                42K Feb 22
                                             2022 Tux.png
-rw-rw-r-- 1 jaleman2 jaleman2
                                20K Feb 22
                                             2022 countries.json
-rw-rw-r-- 1 jaleman2 jaleman2 8.5K Feb 22
                                             2022 sample.xls
-rw-rw-r-- 1 jaleman2 jaleman2
                                  76 Feb 22
                                             2022 helloWorld.c
jaleman2@jaleman2-VirtualBox:~/lab4files$ ls -lhS -G -i
total 6.5M
1459568 -rw-rw-r-- 1 jaleman2 2.5M Feb 22
                                            2022 Linux.pdf
1459570 -rw-rw-r-- 1 jaleman2 2.1M Feb 22
                                            2022 Ubuntu.pdf
1459579 -rw-rw-r-- 1 jaleman2 747K Feb 22
                                            2022 document.docx
1459581 -rw-rw-r-- 1 jaleman2 726K Feb 22
                                            2022 globe.avi
1459576 -rw-rw-r-- 1 jaleman2 278K Feb 22
                                            2022 csvfile.csv
1459587 -rw-rw-r-- 1 jaleman2 135K Feb 22
                                            2022 website.html
1459569 -rw-rw-r-- 1 jaleman2
                               42K Feb 22
                                            2022 Tux.png
1459572 -rw-rw-r-- 1 jaleman2
                               20K Feb 22
                                            2022 countries.json
1459584 -rw-rw-r-- 1 jaleman2 8.5K Feb 22
                                            2022 sample.xls
1459582 -rw-rw-r-- 1 jaleman2 76 Feb 22
                                            2022 helloWorld.c
```

```
jaleman2@jaleman2-VirtualBox:~/lab4files$ ls -hS -G -i
1459568 Linux.pdf
                      1459587 website.html
1459570 Ubuntu.pdf 1459569 Tux.png
1459579 document.docx 1459572 countries.json
                     1459584 sample.xls
1459581 globe.avi
1459576 csvfile.csv
                     1459582 helloWorld.c
jaleman2@jaleman2-VirtualBox:~/lab4files$ ls -r -X
                           document.docx globe.avi
sample.xls Linux.pdf
Tux.png countries.json csvfile.csv
Ubuntu.pdf website.html
                           helloWorld.c
jaleman2@jaleman2-VirtualBox:~/lab4files$
```

Question 3

```
jaleman2@jaleman2-VirtualBox:~/Scripts$ bash lab4_script.sh
The current user is ialeman2. It's 'home directory is /home/ialeman2
The current directory is:
/home/jaleman2/Downloads
The current directory is:
/home/jaleman2/cis106
All files (including hidden files ) in /
bin, bin.usr-is-merged, boot, cdrom, dev, etc, home, lib, lib64, lib.usr-is-merged, lost+found, media, mnt, opt, proc, root, run, sbin, sbin.usr-is-merged, snap, srv, swap.img, sys, wap, usr, var
All files (including hidden files ) in /home/jaleman2
bash_history, bash_logout, bashrc, bobsburgers, .cache, cis106, .config, Desktop, Documents, .dotnet, Downloads, error_librewolfinstaller.log, .gitconfig, .gnupg, lab4files, .lesshst, .local, Music, Pictures, .pki, .profile, Public, Scripts, snap, .ssh, .sudo_as_admin_successful, Templates, .vboxclient-clipboard-tty2-control.pid, .vboxclient-clipboard-tty2-service.pid, .vboxclient-draganddrop-tty2-control.pid, .vboxclient-bashcore, .vboxclient-draganddrop-tty2-control.pid, .vboxclient-seamless-tty2-control.pid,
.vboxclient-vmsvga-session-tty2-control.pid, .vboxclient-vmsvga-session-tty2-service.pid, Videos, .viminfo, .vscode, .wget-hsts
All files (including hidden files ) in \hfill \mbox{home/jaleman2/Downloads}
code_1.93.1-1726079302_amd64.deb, docs, lab4files.zip, practicels, practicels.tar.xz, Project
All files (including hidden files ) in /home/jaleman2/cis106
cheatsheets, .git, labs, notes, weekrep
jaleman2@jaleman2-VirtualBox:~/Scripts$
```

Question 4 (Challenge Question)

• Script Source Code

```
jaleman2@jaleman2-VirtualBox:~/Scripts$ bash lab4_challenge.sh
Changing to:
                 /home/jaleman2/Pictures
Changing to:
                 /home/jaleman2/Videos
Current PWD:
                 /home/jaleman2/Videos
Previous PWD:
                 /home/jaleman2/Pictures
Long list of /home/jaleman2/cis106
total 20K
drwxrwxr-x 2 jaleman2 jaleman2 4.0K 10/03/24 cheatsheets
drwxrwxr-x 8 jaleman2 jaleman2 4.0K 10/18/24 .git
drwxrwxr-x 6 jaleman2 jaleman2 4.0K 10/18/24 labs
drwxrwxr-x 6 jaleman2 jaleman2 4.0K 10/18/24 notes
drwxrwxr-x 6 jaleman2 jaleman2 4.0K 10/18/24 weekreports
jaleman2@jaleman2-VirtualBox:~/Scripts$
```