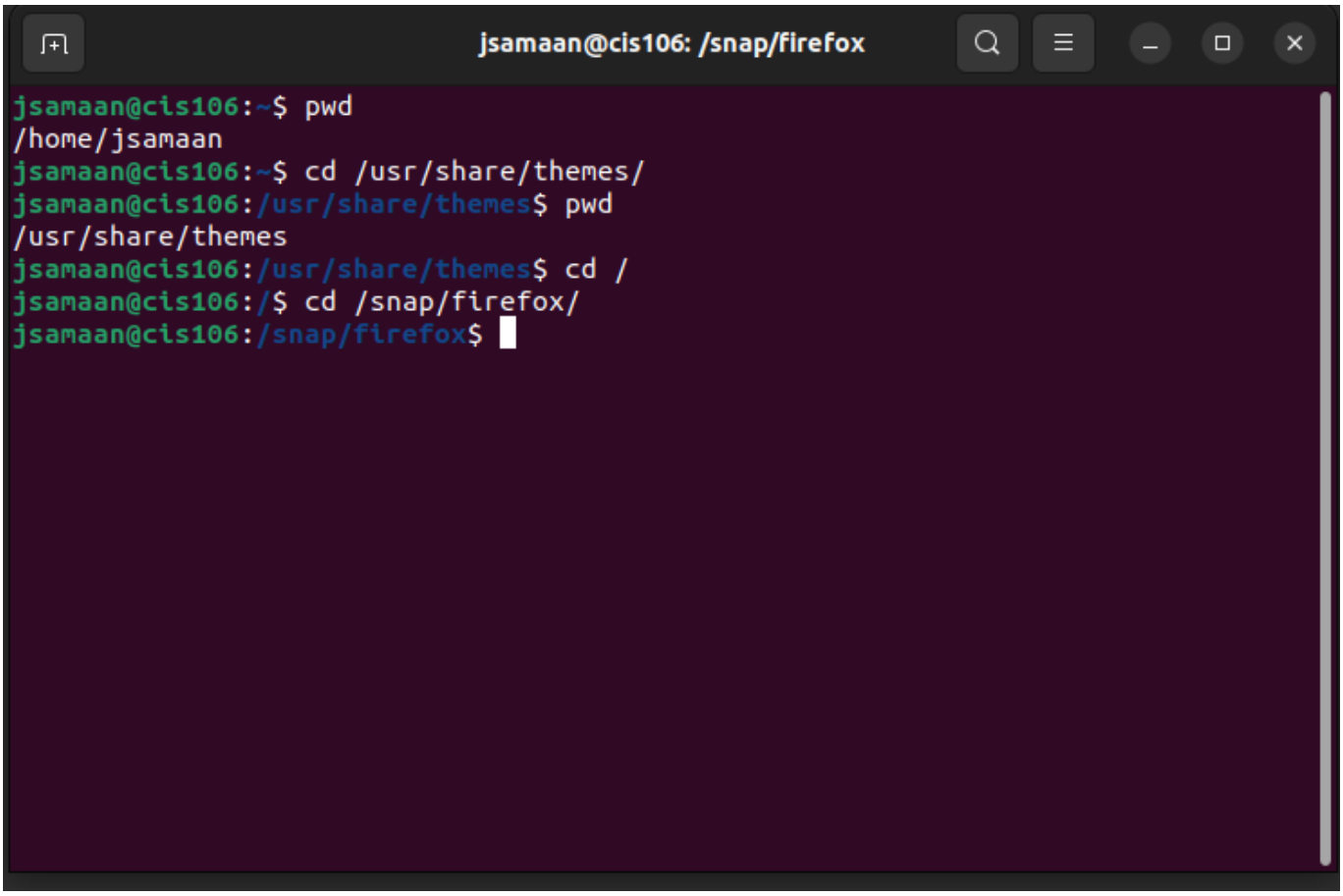
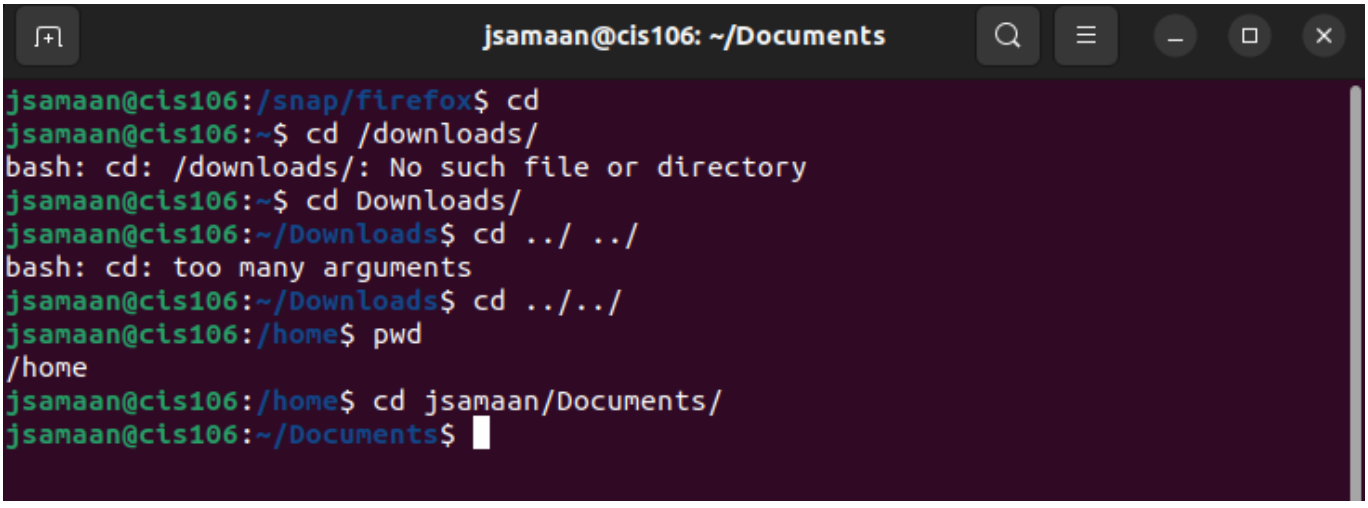
Lab 4 The Linux FS

Question 1





Question 2

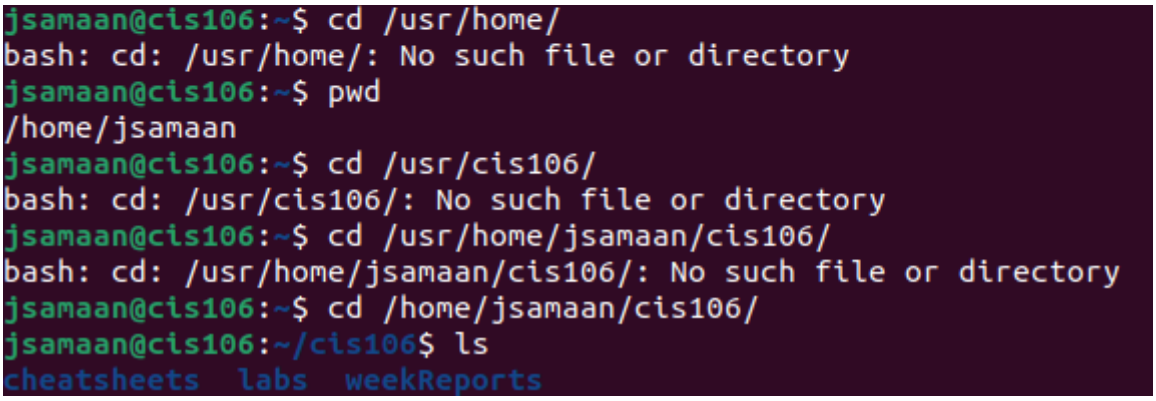
```
jsamaan@cis106:~/Documents$ cd
jsamaan@cis106:~$ cd /usr/share/
jsamaan@cis106:/usr/share$ ls /home/jsamaan/lab4files/
countries.json  document.docx  helloWorld.c  sample.xls  Ubuntu.pdf
csvfile.csv     globe.avi      Linux.pdf     Tux.png     website.html
jsamaan@cis106:/usr/share$ ~/lab4files/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

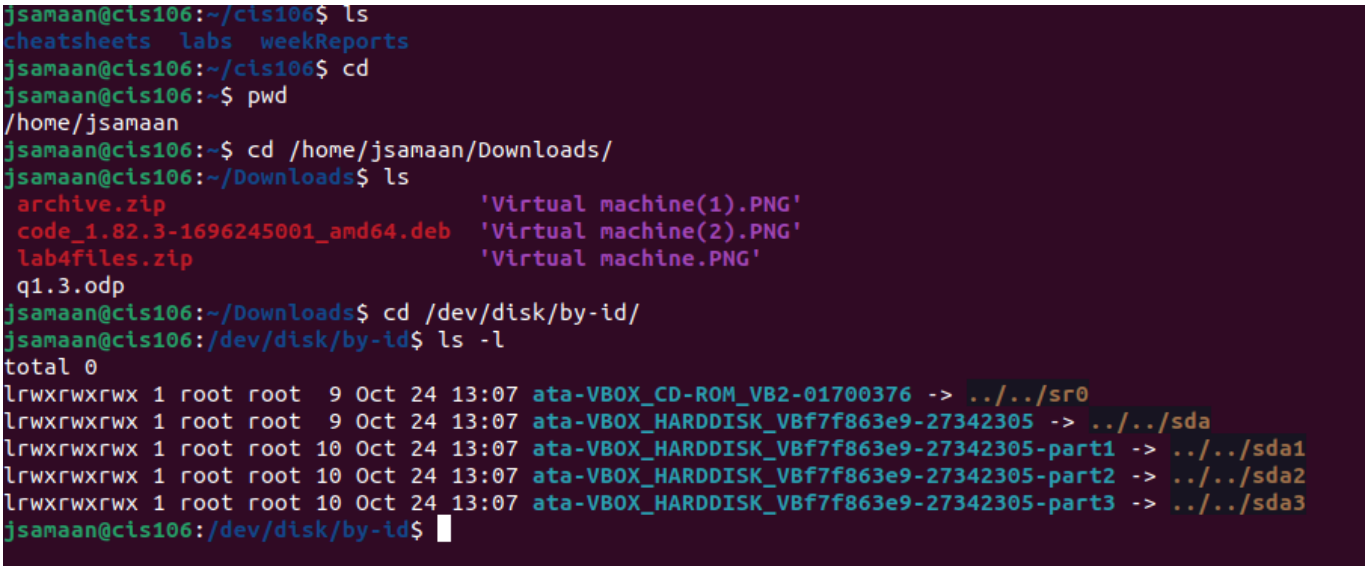
```
jsamaan@cis106:~/lab4files$ ls -lhSgG
total 6.5M
-rw-rw-r-- 1 2.5M Feb 22  2022 Linux.pdf
-rw-rw-r-- 1 2.1M Feb 22  2022 Ubuntu.pdf
-rw-rw-r-- 1 747K Feb 22  2022 document.docx
-rw-rw-r-- 1 726K Feb 22  2022 globe.avi
-rw-rw-r-- 1 278K Feb 22  2022 csvfile.csv
-rw-rw-r-- 1 135K Feb 22  2022 website.html
-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
jsamaan@cis106:~/lab4files$ ls -Xr
sample.xls  Tux.png  Ubuntu.pdf  Linux.pdf  countries.json  website.html  document.docx  csvfile.csv  helloWorld.c  globe.avi
jsamaan@cis106:~/lab4files$
```

Question 4

```
jsamaan@cis106:~$ pwd
/home/jsamaan
jsamaan@cis106:~$ cd /usr/
jsamaan@cis106:/usr$ cd /proc/sys
sys/     sysvipc/
jsamaan@cis106:/usr$ cd /proc/sys/net/ipv4
jsamaan@cis106:/proc/sys/net/ipv4$ cd ..
jsamaan@cis106:/proc/sys/net$ cd ../
jsamaan@cis106:/proc/sys$ cd
jsamaan@cis106:~$ cd /usr/share/backgrounds/
jsamaan@cis106:/usr/share/backgrounds$ ls
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
jsamaan@cis106:/usr/share/backgrounds$ cd
```

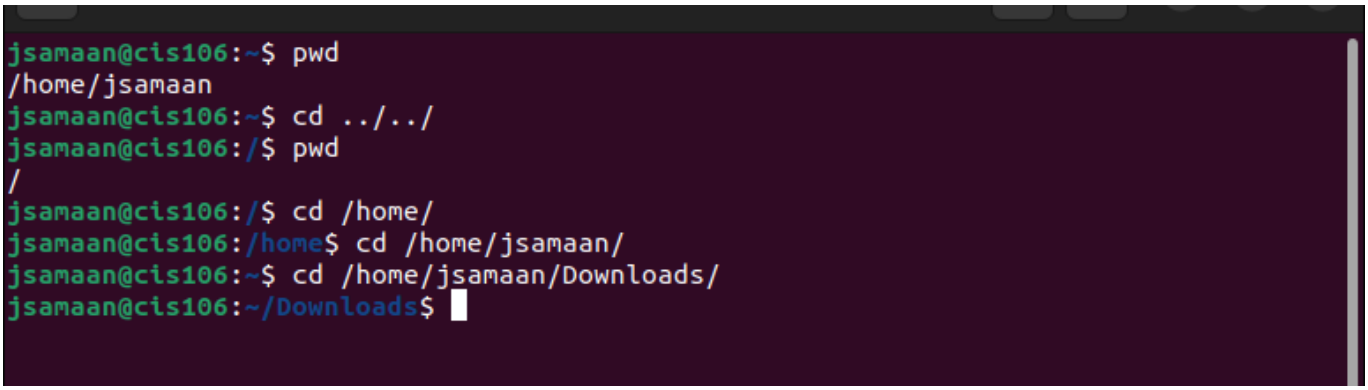
```
jsamaan@cis106:~$ pwd
/home/jsamaan
jsamaan@cis106:~$ cd /usr/
jsamaan@cis106:/usr$ cd /proc/sys
sys/     sysvipc/
jsamaan@cis106:/usr$ cd /proc/sys/net/ipv4
jsamaan@cis106:/proc/sys/net/ipv4$ cd ..
jsamaan@cis106:/proc/sys/net$ cd ../
jsamaan@cis106:/proc/sys$ cd
jsamaan@cis106:~$ cd /usr/share/backgrounds/
jsamaan@cis106:/usr/share/backgrounds$ ls
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
jsamaan@cis106:/usr/share/backgrounds$ cd
jsamaan@cis106:~$ cd /usr/home/cis106/
bash: cd: /usr/home/cis106/: No such file or directory
jsamaan@cis106:~$ cd /home/cis106/
bash: cd: /home/cis106/: No such file or directory
```

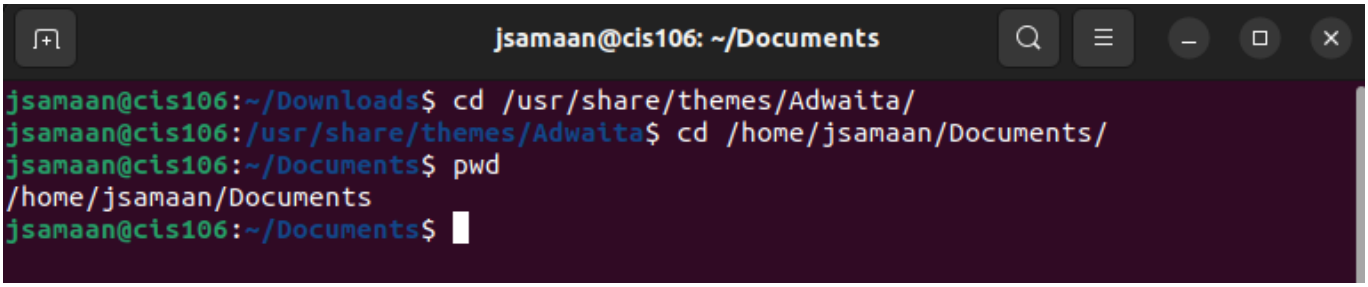

jsamaan@cis106:~$ cd /usr/home/
bash: cd: /usr/home/: No such file or directory
jsamaan@cis106:~$ pwd
/home/jsamaan
jsamaan@cis106:~$ cd /usr/cis106/
bash: cd: /usr/cis106/: No such file or directory
jsamaan@cis106:~$ cd /usr/home/jsamaan/cis106/
bash: cd: /usr/home/jsamaan/cis106/: No such file or directory
jsamaan@cis106:~$ cd /home/jsamaan/cis106/
jsamaan@cis106:~/cis106$ ls
cheatsheets labs weekReports


jsamaan@cis106:~/cis106$ ls
cheatsheets labs weekReports
jsamaan@cis106:~/cis106$ cd
jsamaan@cis106:~$ pwd
/home/jsamaan
jsamaan@cis106:~$ cd /home/jsamaan/Downloads/
jsamaan@cis106:~/Downloads$ ls
archive.zip
code_1.82.3-1696245001_amd64.deb
lab4files.zip
q1.3.odp
'Virtual machine(1).PNG'
'Virtual machine(2).PNG'
'Virtual machine.PNG'
jsamaan@cis106:~/Downloads$ cd /dev/disk/by-id/
jsamaan@cis106:/dev/disk/by-id$ ls -l
total 0
lrwxrwxrwx 1 root root 9 Oct 24 13:07 ata-VBOX_CD-ROM_VB2-01700376 -> ../../sr0
lrwxrwxrwx 1 root root 9 Oct 24 13:07 ata-VBOX_HARDDISK_VBf7f863e9-27342305 -> ../../sda
lrwxrwxrwx 1 root root 10 Oct 24 13:07 ata-VBOX_HARDDISK_VBf7f863e9-27342305-part1 -> ../../sda1
lrwxrwxrwx 1 root root 10 Oct 24 13:07 ata-VBOX_HARDDISK_VBf7f863e9-27342305-part2 -> ../../sda2
lrwxrwxrwx 1 root root 10 Oct 24 13:07 ata-VBOX_HARDDISK_VBf7f863e9-27342305-part3 -> ../../sda3
jsamaan@cis106:/dev/disk/by-id$

```
jsamaan@cis106:/dev/disk/by-id$ cd /usr/share/themes/
jsamaan@cis106:/usr/share/themes$ ls -t
Yaru                  Yaru-magenta-dark         Yaru-sage-dark
Yaru-bark             Yaru-olive                Yaru-viridian
Yaru-bark-dark        Yaru-olive-dark           Yaru-viridian-dark
Yaru-blue             Yaru-prussiangreen        Yaru-xhdpi
Yaru-blue-dark        Yaru-prussiangreen-dark   Default
Yaru-dark             Yaru-purple               Emacs
Yaru-dark-hdpi        Yaru-purple-dark          Raleigh
Yaru-dark-xhdpi       Yaru-red                  Adwaita
Yaru-hdpi             Yaru-red-dark             Adwaita-dark
Yaru-magenta          Yaru-sage                 HighContrast
jsamaan@cis106:/usr/share/themes$ cd .
jsamaan@cis106:/usr/share/themes$ cd /usr/share/
jsamaan@cis106:/usr/share$ ls -X
accountsservice               libdebuginfod-common
aclocal                       libdrm
acpi-support                  libexttextcat
adduser                       libgnomekbd
aisleriot                     libgweather
alacarte                      libgweather-4
alsa                          libinput
alsa-base                     liblangtag
alsa-card-profile             liblouis
appdata                       liblouisutdml
app-info                      libmysofa
applications                  libreoffice
apport                        librevenge
apps                          libthai
apturl                        libwacom
aspell                        lightdm
avahi                         lintian
backgrounds                   linux-sound-base
base-files                    locale
base-passwd                   locale-langpack
bash-completion               locales
binfmts                       lto-disabled-list
branding                      m2300w
brltty                        man
bug                           man-db
build-essential               mate-panel
ca-certificates               maven-repo
caffeine-indicator            media-player-info
catdoc                        menu
cmake                         mesa-demos
code                          metainfo
cogl                          mfx
color                         mime
colord                        misc
```

Question 5


jsamaan@cis106:~$ pwd
/home/jsamaan
jsamaan@cis106:~$ cd ../../
jsamaan@cis106:/$ pwd
/
jsamaan@cis106:/$ cd /home/
jsamaan@cis106:/home$ cd /home/jsamaan/
jsamaan@cis106:~$ cd /home/jsamaan/Downloads/
jsamaan@cis106:~/Downloads$


jsamaan@cis106: ~/Documents
jsamaan@cis106:~/Downloads$ cd /usr/share/themes/Adwaita/
jsamaan@cis106:/usr/share/themes/Adwaita$ cd /home/jsamaan/Documents/
jsamaan@cis106:~/Documents$ pwd
/home/jsamaan/Documents
jsamaan@cis106:~/Documents$