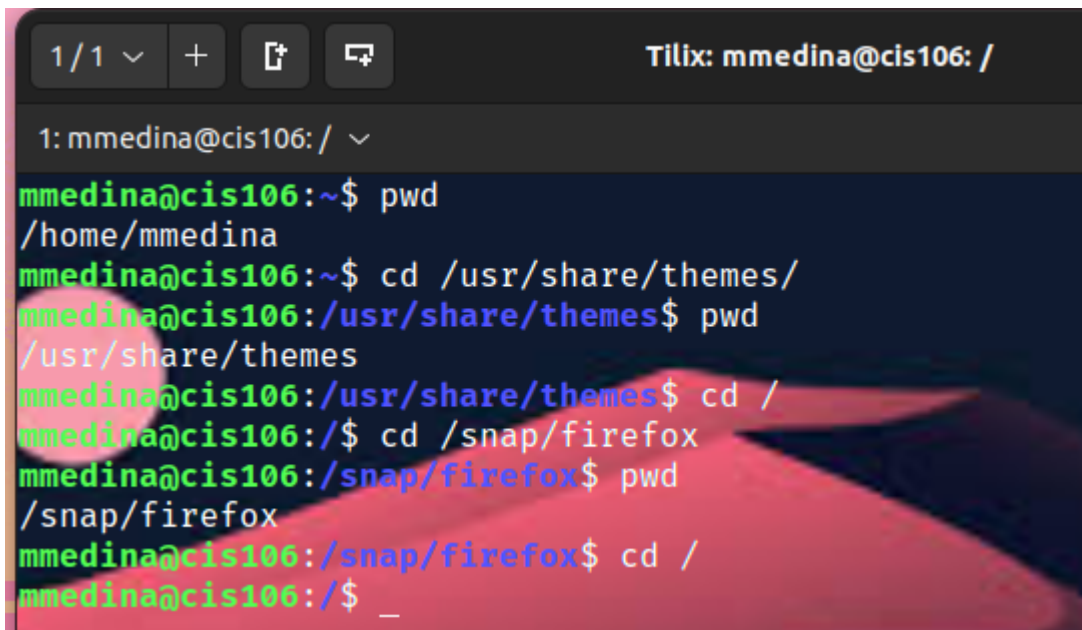
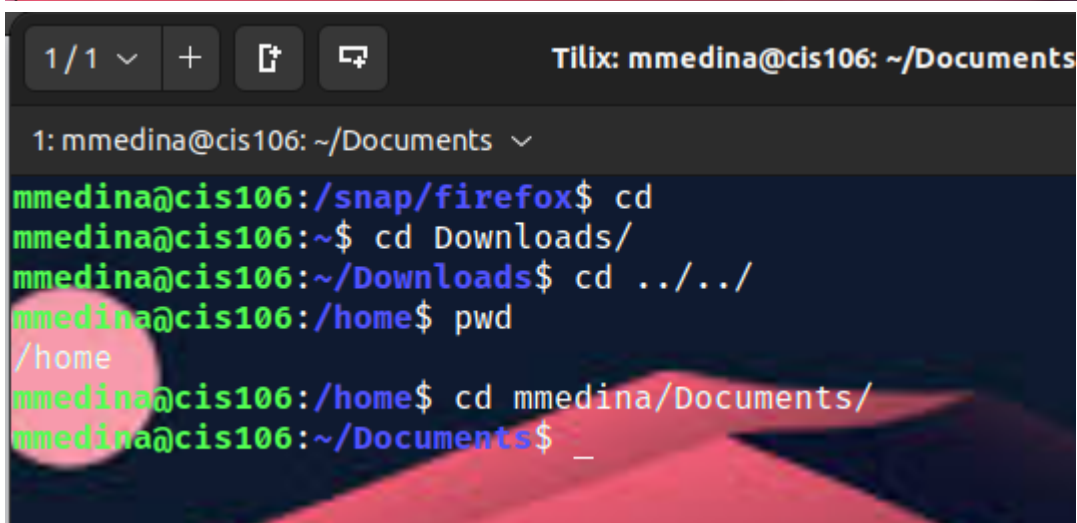


Lab 4: The Linux FS

Question 1



```
1/1  +  [?]  [?]  Tilix: mmedina@cis106: /  
1: mmedina@cis106: /  v  
mmedina@cis106:~$ pwd  
/home/mmedina  
mmedina@cis106:~$ cd /usr/share/themes/  
mmedina@cis106:/usr/share/themes$ pwd  
/usr/share/themes  
mmedina@cis106:/usr/share/themes$ cd /  
mmedina@cis106:/$ cd /snap/firefox  
mmedina@cis106:/snap/firefox$ pwd  
/snap/firefox  
mmedina@cis106:/snap/firefox$ cd /  
mmedina@cis106:/$ _
```



```
1/1  +  [?]  [?]  Tilix: mmedina@cis106: ~/Documents  
1: mmedina@cis106: ~/Documents  v  
mmedina@cis106:/snap/firefox$ cd  
mmedina@cis106:~$ cd Downloads/  
mmedina@cis106:~/Downloads$ cd ../../  
mmedina@cis106:/home$ pwd  
/home  
mmedina@cis106:/home$ cd mmedina/Documents/  
mmedina@cis106:~/Documents$ _
```

Question 2


```

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

```

```

mmedina@cis106:~/lab4files$ ls -lhSgGi
total 6.5M
682393 -rw-rw-r-- 1 2.5M Feb 22 2022 Linux.pdf
684040 -rw-rw-r-- 1 2.1M Feb 22 2022 Ubuntu.pdf
684043 -rw-rw-r-- 1 747K Feb 22 2022 document.docx
684044 -rw-rw-r-- 1 726K Feb 22 2022 globe.avi
684042 -rw-rw-r-- 1 278K Feb 22 2022 csvfile.csv
684047 -rw-rw-r-- 1 135K Feb 22 2022 website.html
683783 -rw-rw-r-- 1 42K Feb 22 2022 Tux.png
684041 -rw-rw-r-- 1 20K Feb 22 2022 countries.json
684046 -rw-rw-r-- 1 8.5K Feb 22 2022 sample.xls
684045 -rw-rw-r-- 1 76 Feb 22 2022 helloWorld.c
mmedina@cis106:~/lab4files$ ls -Xr
sample.xls  Ubuntu.pdf  countries.json  document.docx  helloWorld.c
Tux.png     Linux.pdf   website.html    csvfile.csv    globe.avi
mmedina@cis106:~/lab4files$ ls -Xr
sample.xls  Ubuntu.pdf  countries.json  document.docx  helloWorld.c
Tux.png     Linux.pdf   website.html    csvfile.csv    globe.avi
mmedina@cis106:~/lab4files$ ls -Xrl
total 6580
-rw-rw-r-- 1 mmedina mmedina 8704 Feb 22 2022 sample.xls
-rw-rw-r-- 1 mmedina mmedina 42777 Feb 22 2022 Tux.png
-rw-rw-r-- 1 mmedina mmedina 2114053 Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 mmedina mmedina 2600138 Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 mmedina mmedina 20471 Feb 22 2022 countries.json
-rw-rw-r-- 1 mmedina mmedina 137453 Feb 22 2022 website.html
-rw-rw-r-- 1 mmedina mmedina 764176 Feb 22 2022 document.docx
-rw-rw-r-- 1 mmedina mmedina 284042 Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 mmedina mmedina 76 Feb 22 2022 helloWorld.c
-rw-rw-r-- 1 mmedina mmedina 742478 Feb 22 2022 globe.avi
mmedina@cis106:~/lab4files$ _

```

Question 4

Open a new terminal. What is your present/current working directory? /home/mmedina

Change your present/current working directory to the default directory located inside /usr cd
~/usr/default

Change your present/current working directory to the ipv4 directory located inside /proc cd
~/proc/ipv4

Change your present/current working directory to the previous present/working directory cd -

List all the files inside share/backgrounds without changing your present working directory. ls
~/share/backgrounds

List all the files inside your cis106 directory located in YOUR home directory. ls ~/home/mmedina

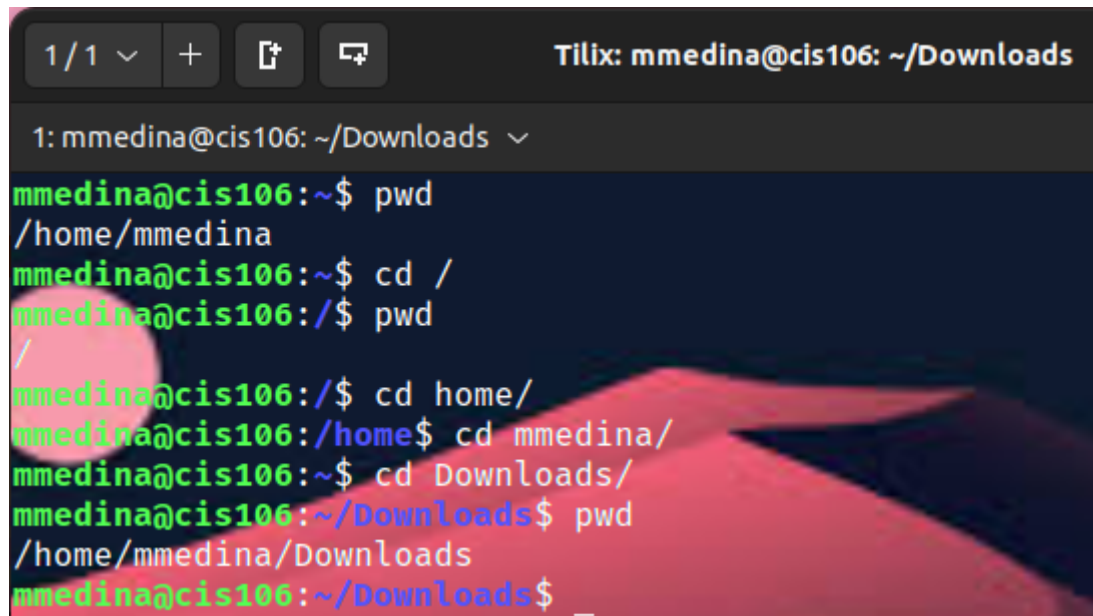
List all the files inside your Downloads directory. Your present working directory has to be /home
before you can list all the files. ls ~/Downloads/

Change your present/current working directory to disk/by-id and from there long list all the files in your home directory including hidden files. `cd ~/disk/by-id; ls -lRa ~/home`

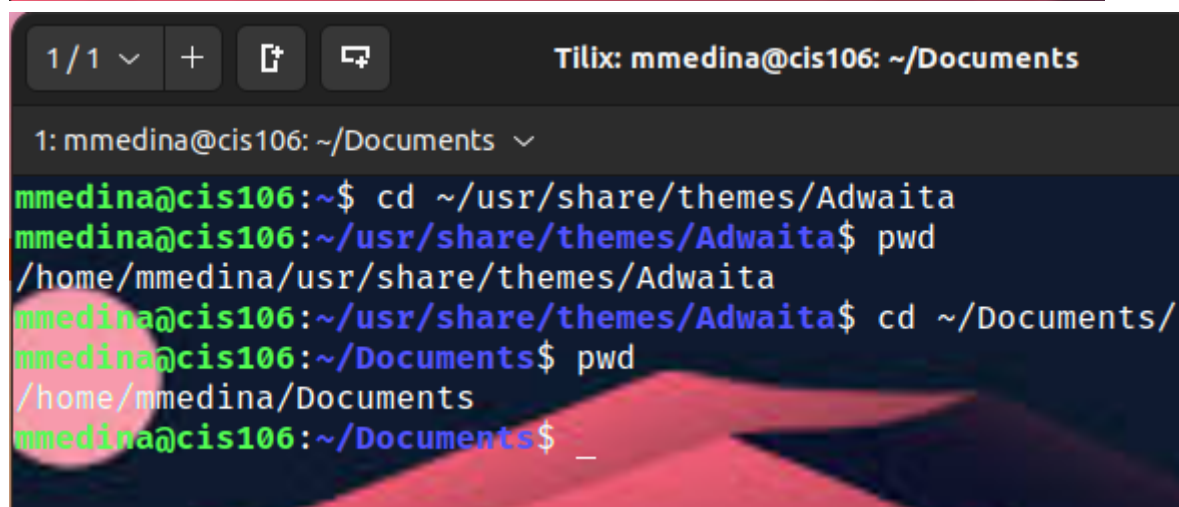
List all the files sorted by modification time inside the share/themes directory. `ls -t ~/share/themes`

List all the files sorted by file extension inside the /usr/share directory. `ls -X /usr/share`

Question 5



```
Tilix: mmedina@cis106: ~/Downloads
1: mmedina@cis106: ~/Downloads
mmedina@cis106:~$ pwd
/home/mmedina
mmedina@cis106:~$ cd /
mmedina@cis106:/$ pwd
/
mmedina@cis106:/$ cd home/
mmedina@cis106:/home$ cd mmedina/
mmedina@cis106:~$ cd Downloads/
mmedina@cis106:~/Downloads$ pwd
/home/mmedina/Downloads
mmedina@cis106:~/Downloads$ _
```



```
Tilix: mmedina@cis106: ~/Documents
1: mmedina@cis106: ~/Documents
mmedina@cis106:~$ cd ~/usr/share/themes/Adwaita
mmedina@cis106:~/usr/share/themes/Adwaita$ pwd
/home/mmedina/usr/share/themes/Adwaita
mmedina@cis106:~/usr/share/themes/Adwaita$ cd ~/Documents/
mmedina@cis106:~/Documents$ pwd
/home/mmedina/Documents
mmedina@cis106:~/Documents$ _
```