

Lab 5 Submission

Linux File System

q1.1 - Moving around the file system

```
> pwd
/home/student
> cd /usr/share/themes
> pwd
/usr/share/themes
> cd /
> pwd
/
> cd /dev/cpu/0
> pwd
/dev/cpu/0
🔒 /dev/cpu/0 14:38:59
> |
```

q1.2 - Moving around the file system

```
> cd
> pwd
/home/student
> cd Downloads
> pwd
/home/student/Downloads
> cd ../../
> pwd
/home
> cd student/Documents
> pwd
/home/student/Documents
~/Documents 15:20:20
> |
```

q2 - Moving around the file system

Absolute path List and Long List

```

> cd /usr/share
> ls -la /home/student/lab5files
total 6580
drwxrwxr-x. 1 student student 214 Feb 22 2022 .
drwx----- 1 student student 800 Oct 28 16:08 ..
-rw-rw-r--. 1 student student 20471 Feb 22 2022 countries.json
-rw-rw-r--. 1 student student 284042 Feb 22 2022 csvfile.csv
-rw-rw-r--. 1 student student 764176 Feb 22 2022 document.docx
-rw-rw-r--. 1 student student 742478 Feb 22 2022 globe.avi
-rw-rw-r--. 1 student student 76 Feb 22 2022 helloWorld.c
-rw-rw-r--. 1 student student 2600138 Feb 22 2022 Linux.pdf
-rw-rw-r--. 1 student student 8704 Feb 22 2022 sample.xls
-rw-rw-r--. 1 student student 42777 Feb 22 2022 Tux.png
-rw-rw-r--. 1 student student 2114053 Feb 22 2022 Ubuntu.pdf
-rw-rw-r--. 1 student student 137453 Feb 22 2022 website.html
> cd ~/lab5files
> ls -lh
total 6.5M
-rw-rw-r--. 1 student student 20K Feb 22 2022 countries.json
-rw-rw-r--. 1 student student 278K Feb 22 2022 csvfile.csv
-rw-rw-r--. 1 student student 747K Feb 22 2022 document.docx
-rw-rw-r--. 1 student student 726K Feb 22 2022 globe.avi
-rw-rw-r--. 1 student student 76 Feb 22 2022 helloWorld.c
-rw-rw-r--. 1 student student 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r--. 1 student student 8.5K Feb 22 2022 sample.xls
-rw-rw-r--. 1 student student 42K Feb 22 2022 Tux.png
-rw-rw-r--. 1 student student 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r--. 1 student student 135K Feb 22 2022 website.html
~/lab5files 16:09:27

```

Sorted long list and Username + group removed, inode number

```

> ls -lHS
total 6.5M
-rw-rw-r--. 1 student student 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r--. 1 student student 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r--. 1 student student 747K Feb 22 2022 document.docx
-rw-rw-r--. 1 student student 726K Feb 22 2022 globe.avi
-rw-rw-r--. 1 student student 278K Feb 22 2022 csvfile.csv
-rw-rw-r--. 1 student student 135K Feb 22 2022 website.html
-rw-rw-r--. 1 student student 42K Feb 22 2022 Tux.png
-rw-rw-r--. 1 student student 20K Feb 22 2022 countries.json
-rw-rw-r--. 1 student student 8.5K Feb 22 2022 sample.xls
-rw-rw-r--. 1 student student 76 Feb 22 2022 helloWorld.c
> ls -goi
total 6.5M
3119331 -rw-rw-r--. 1 20K Feb 22 2022 countries.json
3119332 -rw-rw-r--. 1 278K Feb 22 2022 csvfile.csv
3119333 -rw-rw-r--. 1 747K Feb 22 2022 document.docx
3119334 -rw-rw-r--. 1 726K Feb 22 2022 globe.avi
3119335 -rw-rw-r--. 1 76 Feb 22 2022 helloWorld.c
3119328 -rw-rw-r--. 1 2.5M Feb 22 2022 Linux.pdf
3119336 -rw-rw-r--. 1 8.5K Feb 22 2022 sample.xls
3119329 -rw-rw-r--. 1 42K Feb 22 2022 Tux.png
3119330 -rw-rw-r--. 1 2.1M Feb 22 2022 Ubuntu.pdf
3119337 -rw-rw-r--. 1 135K Feb 22 2022 website.html
~/lab5files 16:17:21
>

```

File extension list reverse order

```
> ls -Xr
sample.xls  Ubuntu.pdf  countries.json  document.docx  helloWorld.c
Tux.png     Linux.pdf   website.html   csvfile.csv    globe.avi

~/lab5files 16:18:29
> |
```

q3 - Challenge Question

Marsten House

House Map

```
> tree marstenHouse
marstenHouse
├── attic
│   ├── guest_room
│   │   ├── attic
│   │   ├── guest_room
│   │   └── master_bedroom
└── 
```

6 directories, 0 files

```
~ | 16:21:46
```

Key absolute paths

```
> ls -la
total 4
drwxr-xr-x. 1 student student 20 Oct 28 16:21 .
drwx----- 1 student student 854 Oct 28 16:25 ..
drwxr-xr-x. 1 student student 30 Oct 28 16:21 attic
-rw-r--r--. 1 student student 23 Oct 28 16:21 .key4
> realpath .key4
/home/student/marstenHouse/.key4
> cd attic
> ls -la
total 4
drwxr-xr-x. 1 student student 30 Oct 28 16:21 .
drwxr-xr-x. 1 student student 20 Oct 28 16:21 ..
drwxr-xr-x. 1 student student 58 Oct 28 16:21 guest_room
-rw-r--r--. 1 student student 23 Oct 28 16:21 .key2
> realpath .key2
/home/student/marstenHouse/attic/.key2
> cd guest_room
> ls -la
total 0
drwxr-xr-x. 1 student student 58 Oct 28 16:21 .
drwxr-xr-x. 1 student student 30 Oct 28 16:21 ..
drwxr-xr-x. 1 student student 20 Oct 28 16:21 attic
drwxr-xr-x. 1 student student 0 Oct 28 16:21 guest_room
drwxr-xr-x. 1 student student 10 Oct 28 16:21 master_bedroom
> cd attic
> ls -la
total 8
drwxr-xr-x. 1 student student 20 Oct 28 16:21 .
drwxr-xr-x. 1 student student 58 Oct 28 16:21 ..
-rw-r--r--. 1 student student 22 Oct 28 16:21 .key1
-rw-r--r--. 1 student student 22 Oct 28 16:21 .key5
> realpath .key1
/home/student/marstenHouse/attic/guest_room/attic/.key1
> realpath .key5
/home/student/marstenHouse/attic/guest_room/attic/.key5
> cd ..
> cd master_bedroom
> ls -la
total 4
drwxr-xr-x. 1 student student 10 Oct 28 16:21 .
drwxr-xr-x. 1 student student 58 Oct 28 16:21 ..
-rw-r--r--. 1 student student 22 Oct 28 16:21 .key3
> realpath .key3
/home/student/marstenHouse/attic/guest_room/master_bedroom/.key3
```