

HW1

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Exercise 1.

My home directory is `/Users/vincent`

```
echo ~
```

```
## /Users/vincent
```

The list of files and folders in the home directory is:

```
# list of folders in my home directory
```

```
ls ~
```

```
## Applications
```

```
## Desktop
```

```
## Documents
```

```
## Downloads
```

```
## Library
```

```
## Movies
```

```
## Music
```

```
## Pictures
```

```
## Public
```

```
## Zotero
```

```
## anaconda3
```

```
## scratch.nb
```

```
pwd
```

```
cd ~/
```

```
pwd
```

```
cd /Users/vincent/Desktop/2024S/613Notes
```

```
pwd
```

```
## /Users/vincent/Desktop/2024S/613Notes
```

```
## /Users/vincent
```

```
## /Users/vincent/Desktop/2024S/613Notes
```

Exercise 2.

The command `cd ../../../../` would take me 3 levels above my home directory. But since my computer only has 2 levels above it, it just takes me to the root directory. Each `../` is one level above the previous.

```
cd ../../../../
```

```
pwd
```

```
## /
```

Exercise 3.

The `a` flag is the short version of the `-all` flag which tells `ls` not to ignore entries that start with a `'.'`

The `l` flag tells `ls` to use the long listing format which displays the files in a list along with more information about them like their owner, group permissions, and date.

```
man ls
```

Exercise 4.

```
touch myfile.txt
```

According to the manual, the `stat` command gives back the `st_dev`, `st_ino`, `st_mode`, `st_nlink`, `st_uid`, `st_gid`, `st_rdev`, `st_size`, `st_atime`, `st_mtime`, `st_ctime`, `st_birthtime`, `st_blksize`, `st_blocks`, and `st_flags` fields. It displays the file's status.

```
stat myfile.txt
```

```
## 16777233 15640257 -rw-r--r-- 1 vincent staff 0 0 "Jul  7 13:31:19 2024" "Jul  7 13:31:19 2024" "Jul
```

Exercise 5.

```
ls
```

```
## Hw1.Rmd
## Hw1.pdf
## myfile.txt
```

The `ls -l` shows that the other file `Hw1.rmd` and `myfile.txt` have the same owner and permissions and group. `Hw1.rmd` was modified at the same time as `myfile.txt` but is larger.

```
ls -l myfile.txt
ls -l Hw1.rmd
```

```
## -rw-r--r--@ 1 vincent  staff  0 Jul  7 13:31 myfile.txt
## -rw-r--r--@ 1 vincent  staff 1863 Jul  7 13:31 Hw1.rmd
```

Exercise 6.

```
echo "This line is my first line" >> myfile.txt
```

```
cat myfile.txt
```

```
## This line is my first line
```

Exercise 7.

The timestamp for `myfile.txt` is updated to the current time.

```
touch myfile.txt
```

```
ls -l myfile.txt
```

```
## -rw-r--r--@ 1 vincent  staff 27 Jul  7 13:31 myfile.txt
```