HW1 – Exercise-Bash

Exercise 1: What is your home directory? What files/folders exist in your home directory? Navigate to it and then navigate back to your notes.

- (1) My home directory: /Users/michellelee
- (2) List files/folders in my home directory:

```
Applications Movies
Desktop Music
Documents Pictures
Downloads Public
Exercise-Bash.html.save iCloud雲碟(封存檔)
Library myfile.txt
```

(3) To navigate to it and back to notes:

```
[michellelee@MichelledeAir ~ % echo $HOME
/Users/michellelee
[michellelee@MichelledeAir ~ % ls ~
Applications
Desktop
                                 Music
Documents
                                 Pictures
Downloads
                                 Public
                                iCloud雲碟(封存檔)
Exercise-Bash.html.save
Library my
[michellelee@MichelledeAir ~ % cd ~
                                myfile.txt
[michellelee@MichelledeAir ~ % pwd
/Users/michellelee
[michellelee@MichelledeAir ~ % cd -
[michellelee@MichelledeAir ~ % pwd
/Users/michellelee
michellelee@MichelledeAir ~ %
```

Exercise 2: Where does the following command take you? How does it work?

The command cd ~/../.. does the following:

- takes you to your home directory
- /../.. then goes up three directory levels from there

This could take you to the root directory (/) or close to it, depending on how deep your home directory is in the file system.

Exercise 3:

- (1) To read the manual for ls.
- (2) The -a flag shows all files, including hidden files (those starting with a dot). The -1 flag uses a long listing format, showing detailed information about each file. (owner, size, permissions, and modification time.)

The following is a screenshot of some results after typing man ls.

```
NAME

1s - list directory contents

NAME

1s - list contained within that directory contents of the current directory operands are defined in less for long of the character in octal. This option is not defined in less for long of the character in octal. This option is not defined in less for long of the character in octal. This option is not defined in less for long of the character in o
```

Exercise 4: Create a new file with touch command. for instance touch myfile.txt. Run stat myfile.txt what information do you get?

Create a file: touch myfile.txt., and then run stat myfile.txt

Here is the information I got:

```
16777233 25237963 -rw-r--r- 1 michellelee staff 0 27 "Jul 4 20:27:52 2024" "Jul 4 20:27:50 2024" "Jul 4 20:27:50 2024" "Jul 4 16:47:41 2024" 4096 8 0 myfile.txt
```

Exercise 5: Run 1s and from there list select a file. Now run '1s -1' to display the details of the files, showing that it has been created or updated. What inormation does it give you regarding the myfile.txt and your selected file.

```
-rw-r--r- 1 michellelee staff 27 Jul 4 20:27 myfile.txt
```

Exercise 6: Add the following line This line is my first line to myfile.txt. Then run cat myfile.txt to show the line is added.

```
michellelee@MichelledeAir ~ % echo "This line is my first line" >
myfile.txt
michellelee@MichelledeAir ~ % cat myfile.txt
This line is my first line
```

Exercise 7: Run touch myfile.txt then run ls -1 myfile.txt does the "timestamp" for the file myfile.txt is updated? Show the output. *Note: Another common use of the touch command is to update the timestamps of an existing file.*

This will update the timestamp of myfile.txt and show the new timestamp in the output.

```
michellelee@MichelledeAir ~ % touch myfile.txt
michellelee@MichelledeAir ~ % ls -1 myfile.txt
```

* The following is all the coding and screenshots of this homework:

```
michellelee@MichelledeAir ~ % echo $HOME
/Users/michellelee
michellelee@MichelledeAir ~ % ls ~
Applications
                         Movies
                         Music
Desktop
Documents
                    Pictures
Downloads
                    Public
                               iCloud 雲碟(封存檔)
Exercise-Bash.html.save
Library
                         myfile.txt
michellelee@MichelledeAir ~ % cd ~
michellelee@MichelledeAir ~ % pwd
/Users/michellelee
michellelee@MichelledeAir ~ % cd -
michellelee@MichelledeAir ~ % pwd
/Users/michellelee
michellelee@MichelledeAir ~ % man ls
Unknown locale, assuming C
michellelee@MichelledeAir ~ % touch myfile.txt
michellelee@MichelledeAir ~ % stat myfile.txt
16777233 25237963 -rw-r--r-- 1 michellelee staff 0 27 "Jul 4 20:27:52
2024" "Jul 4 20:27:50 2024" "Jul 4 20:27:50 2024" "Jul 4 16:47:41
2024" 4096 8 0 myfile.txt
michellelee@MichelledeAir ~ % ls
Applications
                         Movies
Desktop
                         Music
                    Pictures
Documents
Downloads
                    Public
Exercise-Bash.html.save
                               iCloud 雲碟(封存檔)
Library
                         myfile.txt
michellelee@MichelledeAir ~ % ls -1
total 16
drwx----@ 3 michellelee staff 96 Sep 2 2023 Applications
drwx-----@ 24 michellelee staff 768 Jul 3 16:19 Desktop
drwx-----@ 4 michellelee staff 128 Jul 4 12:30 Documents
drwx-----@ 291 michellelee staff 9312 Jul 4 14:48 Downloads
-rw----- 1 michellelee staff 2959 Jul 4 12:30 Exercise-
Bash.html.save
drwx-----@ 92 michellelee staff 2944 Jul 4 11:44 Library
drwx----- 5 michellelee staff 160 Sep 4 2023 Movies
drwx----+ 6 michellelee staff 192 Aug 20 2023 Music
```

```
drwx-----+ 14 michellelee staff 448 Sep 8 2023 Pictures drwxr-xr-x+ 4 michellelee staff 128 Jul 26 2023 Public drwx----- 4 michellelee staff 128 Jul 26 2023 iCloud 雲碟(封存檔) -rw-r--r-- 1 michellelee staff 27 Jul 4 20:27 myfile.txt michellelee@MichelledeAir ~ % echo "This line is my first line" > myfile.txt michellelee@MichelledeAir ~ % cat myfile.txt This line is my first line michellelee@MichelledeAir ~ % touch myfile.txt michellelee@MichelledeAir ~ % touch myfile.txt michellelee@MichelledeAir ~ % ls -1 myfile.txt -rw-r--r-- 1 michellelee staff 27 Jul 4 20:42 myfile.txt michellelee@MichelledeAir ~ %
```

```
nichellelee@MichelledeAir ~ % echo $HOME
/Users/michellelee
[michellelee@MichelledeAir ~ % ls ~
Applications
                                  Movies
                                  Music
Pictures
Desktop
Documents
                                 Public
iCloud雲碟(封存檔)
myfile.txt
Exercise-Bash.html.save
Library my:
[michellelee@MichelledeAir ~ % cd ~
[michellelee@MichelledeAir ~ % cd -
michellelee@MichelledeAir ~ % man ls
e.txt
[michellelee@MichelledeAir ~ % ls
Applications
Desktop
Documents
                                 Music
                                  Pictures
Downloads
                                 Public
```