OS LAB : Assignment 2

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Problem Statement: Execution of Advance Linux commands.

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1. **Change your password to a password you would like to use for the remainder of the semester.**

```
omi@LIGHT:~$ passwd
Changing password for omi.
Current password:
New password:
Retype new password:
passwd: password updated successfully
omi@LIGHT:~$
```

2. **Display the system's date.**

```
omi@LIGHT:~$ date
Wednesday 26 July 2023 09:47:15 PM IST
omi@LIGHT:~$
```

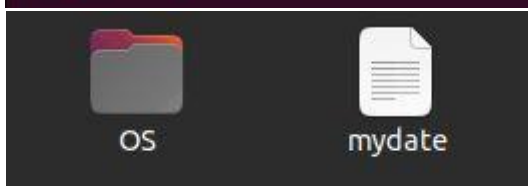3. **Count the number of lines in the /etc/passwd file.**

```
omi@LIGHT:~/Documents/OS$ wc -l /etc/passwd
48 /etc/passwd
```

4. **Find out who else is on the system.**

```
omi@LIGHT:~$ who
omi      tty2           2023-07-26 21:44 (tty2)
omi@LIGHT:~$
```
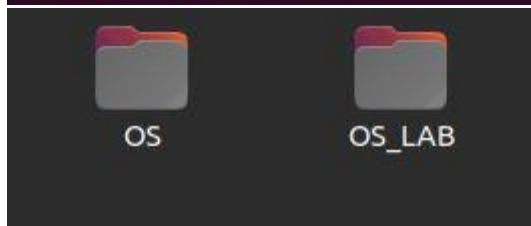
5. **Direct the output of the man pages for the date command to a file named mydate.**

```
omi@LIGHT:~/Documents$ man date > mydate
omi@LIGHT:~/Documents$
```
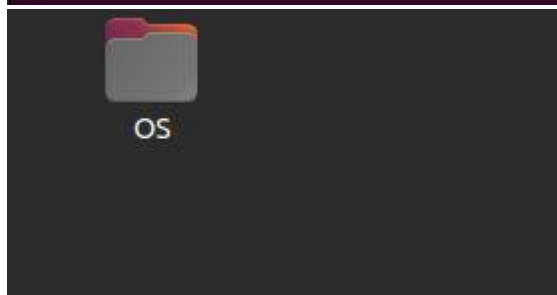
6. **Create a subdirectory called OS_LAB.**

```
omi@LIGHT:~/Documents$ mkdir OS_LAB
omi@LIGHT:~/Documents$
```

OS   OS_LAB

7. **Move the file mydate into the new subdirectory.**

```
omi@LIGHT:~/Documents$ mv mydate OS
omi@LIGHT:~/Documents$
```

OS

8. **Go to the subdirectory mydir and copy the file mydate to a new file called ourdate .**

```
omi@LIGHT:~/Documents$ cd OS
omi@LIGHT:~/Documents/OS$
```

9. **List the contents of mydir.**

```
omi@LIGHT:~/Documents/OS$ ls
LAB   LAB_1.txt   mydate
omi@LIGHT:~/Documents/OS$ ls LAB
editable.txt   LAB_1.txt
omi@LIGHT:~/Documents/OS$
```

10. **Do a long listing on the file ourdate and note the permissions.**

```
omi@LIGHT:~/Documents/OS$ ls -l mydir/ourdate
```

11. **Display the name of the current directory starting from the root.**

```
omi@LIGHT:~/Documents/OS$ pwd
/home/omi/Documents/OS
 Help  GHT:~/Documents/OS$
```

12. **Move the files in the directory OS back to the HOME directory.**

```
omi@LIGHT:~/Documents/OS$ mv OS/* ~/
```

13. List all the files in your HOME directory.

```
omi@LIGHT:~$ ls
Desktop     Downloads  Pictures  snap       Videos
Documents  Music       Public    Templates
```

14. Display the first 5 lines of mydate.

```
omi@LIGHT:~/Documents/OS$ head -n 5 mydate
DATE(1)                        User Commands                        DATE(1)

NAME
       date - print or set the system date and time

omi@LIGHT:~/Documents/OS$
```

15. Display the last 8 lines of mydate.

```
omi@LIGHT:~/Documents/OS$ tail -n 8 mydate
       This  is  free  software:  you  are free to change and redistribute it.
       There is NO WARRANTY, to the extent permitted by law.

SEE ALSO
       Full documentation <https://www.gnu.org/software/coreutils/date>
       or available locally via: info '(coreutils) date invocation'

GNU coreutils 8.32              February 2022                        DATE(1)
```

16. Remove the directory mydir.

```
omi@LIGHT:~/Documents/OS$ rm -r mydir
```

17. Redirect the output of the long listing of files to a file named list.

```
omi@LIGHT:~/Documents/OS$ ls -l list
```

18. Select any 5 capitals of states in India and enter them in a file named capitals1. Choose 5 more capitals and enter them in a file named capitals2. Choose 5 more capitals and enter them in a file named capitals3. Concatenate all 3 files and redirect the output to a file named capitals.

```
omi@LIGHT:~/Documents/OS$ cat capitals1 captials2 capitals3 > capitals
```

19. Concatenate the file capitals2 at the end of file capitals.

```
omi@LIGHT:~/Documents/OS$ cat capitals2 >> capitals
```

20. Redirect the file capitals as an input to the command "wc –l".

```
omi@LIGHT:~/Documents/OS$ wc -l capitals
```