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OS LAB-1

1. Calendar command:

2. Date command:

```
Thursday 17 February 2022 03:09:31 AM IST
```

3. Who command:

```
alaric@alaric-virtual-machine:~$ who alaric :0 2022-02-17 03:04 (:0)
```

4. Who am I command:

```
alaric@alaric-virtual-machine:~$ whoami alaric
```

5. Help command:

6. Clear Command:

alaric@alaric-virtual-machine:~\$ clear

7. ID command:

alaric@alaric-virtual-machine:~\$ id
uid=1000(alaric) gid=1000(alaric) groups=1000(alaric),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),120(lpadmin),132(lxd),133(sambashare)

8. echo command:

alaric@alaric-virtual-machine:~\$ echo something
something

9. tty command:

alaric@alaric-virtual-machine:~\$ tty
/dev/pts/0

FILE MANIPULATION COMMANDS

1. Create a file:

```
alaric@alaric-virtual-machine:~$ vi file1.c
alaric@alaric-virtual-machine:~$ vi file2.c
```

2. Head Command:

```
alaric@alaric-virtual-machine:~$ head -1 file1.c
Hello
```

3. Tail command:

```
alaric@alaric-virtual-machine:~$ tail -2 file1.c
I am awesome
```

4. List information about files and directories

```
alaric@alaric-virtual-machine:~$ ls
alaric Desktop Documents Downloads fil1.x file1.c file2.c Music Pictures Public snap Templates Videos
```

5. Copy a file:

```
alaric@alaric-virtual-machine:~$ cp file1.c file3.c
alaric@alaric-virtual-machine:~$ ls
alaric Desktop Documents Downloads fil1.x file1.c file2.c file3.c Music Pictures Public snap Templates Videos
```

6. Move or rename a file:

```
alaric@alaric-virtual-machine:~$ mv file1.c file5.c
alaric@alaric-virtual-machine:~$ ls
alaric Desktop Documents Downloads fil1.x file2.c file3.c file5.c Music Pictures Public snap Templates Videos
```

7. Remove a file:

```
alaric@alaric-virtual-machine:~$ rm fil1.x
alaric@alaric-virtual-machine:~$ ls
alaric Desktop Documents Downloads file2.c file3.c file5.c Music Pictures Public snap Templates Videos
```

9. Display the contents of a file onto screen:

```
alaric@alaric-virtual-machine:~$ cat file5.c
Hello
How are you
I am awesome
```

10. Word count command:

alaric@alaric-virtual-machine:~\$ wc file5.c
4 7 35 file5.c

11. Find Command:

alaric@alaric-virtual-machine:~\$ find ./file5.c ./file5.c alaric@alaric-virtual-machine:~\$ find file2.c file2.c

12. Comparing files:

```
alaric@alaric-virtual-machine:~$ cmp file5.c file8.c
file5.c file8.c differ: byte 1, line 1
```

```
13. Differentiating Files: alaric@alaric-virtual-machine:~$ diff file5.c file8.c
1,3c1
< Hello
< How are you
< I am awesome
> something something something
```

DIRECTORY COMMANDS

1. Create a directory:

```
alaric@alaric-virtual-machine:-$ mkdir my_direc alaric@alaric-virtual-machine:-$ ls alaric Desktop Documents Downloads file2.c file3.c file5.c file8.c Music my_direc Pictures Public snap Templates Videos
```

2.List all directories (including .(dot) entries in the long listing.)

```
alaric@alaric-virtual-machine:~$ ls -la
total 108
drwxr-xr-x 19 alaric alaric 4096 Feb 17 03:30 .
drwxr-xr-x 3 root root
                          4096 Feb 11 07:10 ...
drwxrwxr-x 2 alaric alaric 4096 Feb 11 08:09 alaric
-rw----- 1 alaric alaric 642 Feb 17 03:11 .bash_history
-rw-r--r-- 1 alaric alaric 220 Feb 11 07:10 .bash_logout
-rw-r--r-- 1 alaric alaric 3771 Feb 11 07:10 .bashrc
drwx----- 12 alaric alaric 4096 Feb 11 08:17 .cache
drwx----- 14 alaric alaric 4096 Feb 11 08:39 .config
drwxr-xr-x 2 alaric alaric 4096 Feb 11 07:20 Desktop
drwxr-xr-x 2 alaric alaric 4096 Feb 11 07:20 Documents
drwxr-xr-x 2 alaric alaric 4096 Feb 11 07:20 Downloads
-rw-rw-r-- 1 alaric alaric 35 Feb 17 03:23 file2.c
-rw-rw-r-- 1 alaric alaric 35 Feb 17 03:24 file3.c
-rw-rw-r-- 1 alaric alaric 32 Feb 17 03:29 file8.c
drwx----- 3 alaric alaric 4096 Feb 15 03:33 .gnupg
drwxr-xr-x 3 alaric alaric 4096 Feb 11 07:20 .local
drwx----- 4 alaric alaric 4096 Feb 11 08:17 .mozilla
drwxr-xr-x 2 alaric alaric 4096 Feb 11 07:20 Music
drwxrwxr-x 2 alaric alaric 4096 Feb 17 03:30 my_direc
drwxr-xr-x 2 alaric alaric 4096 Feb 11 07:20 Pictures
-rw-r--r-- 1 alaric alaric 807 Feb 11 07:10 .profile
drwxr-xr-x 2 alaric alaric 4096 Feb 11 07:20 Public
drwx----- 3 alaric alaric 4096 Feb 11 07:23 snap
drwx----- 2 alaric alaric 4096 Feb 11 07:25 .ssh
-rw-r--r-- 1 alaric alaric
                             0 Feb 11 07:45 .sudo as admin successful
drwxr-xr-x 2 alaric alaric 4096 Feb 11 07:20 Templates
drwxr-xr-x 2 alaric alaric 4096 Feb 11 07:20 Videos
```

3. Change from one directory to another:

```
alaric@alaric-virtual-machine:~$ cd my_direc
alaric@alaric-virtual-machine:~/my_direc$
```

4. Display the full path of the current working directory: alaric@alaric-virtual-machine:~/my_direc\$ pwd/home/alaric/my_direc

5. Remove a directory:

```
alaric@alaric-virtual-machine:~$ rmdir my_direc
alaric@alaric-virtual-machine:~$ ls
alaric Desktop Documents Downloads file2.c file3.c file5.c file8.c Music Pictures Public snap Templates Videos
```

8.Link Command:

```
alaric@alaric-virtual-machine:~$ ls
alaric Desktop Documents Downloads file2.c file3.c file5.c file8.c Music Pictures Public snap Templates Videos
alaric@alaric-virtual-machine:~$ mkdir root
alaric@alaric-virtual-machine:~$ ln -t root file5.c
alaric@alaric-virtual-machine:~$ cd root
alaric@alaric-virtual-machine:~/root$ ls
file5.c
```