

NETWORKING & SYSTEM ADMINISTRATION LAB

Experiment No.: 1

Aim

Familiarization of linux commands.

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Roll No: 51

Batch: B

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Procedure

1. **pwd:** The pwd command is used to display the location of the current working directory.

```
oem@oem-TECRA-C50-E:~$ pwd
/home/oem
```

2. **mkdir:** The mkdir command is used to create a new directory under any directory.

```
oem@oem-TECRA-C50-E:~$ mkdir vishnumohan
oem@oem-TECRA-C50-E:~$ pwd
/home/oem
```

3. **ls:** The ls command is used to display a list of content of a directory.

```
oem@oem-TECRA-C50-E:~$ ls
Desktop    Downloads  Music      Public     snap       Videos
Documents  mohan     Pictures   PycharmProjects  Templates  vishnumohan
```

4. **ls -l:** It is used to list informations about files and directories within the file system.

```
oem@oem-TECRA-C50-E:~$ ls -l
total 48
drwxr-xr-x 2 oem oem 4096 Mar 17 2021 Desktop
drwxr-xr-x 2 oem oem 4096 Mar  4 2021 Documents
drwxr-xr-x 3 oem oem 4096 Dec 17 00:32 Downloads
drwxrwxr-x 2 oem oem 4096 Mar 24 20:40 mohan
drwxr-xr-x 2 oem oem 4096 Mar  4 2021 Music
drwxr-xr-x 2 oem oem 4096 Mar 24 21:14 Pictures
drwxr-xr-x 2 oem oem 4096 Mar  4 2021 Public
drwxrwxr-x 3 oem oem 4096 Apr  3 2021 PycharmProjects
drwxr-xr-x 3 oem oem 4096 Mar 18 2021 snap
drwxr-xr-x 2 oem oem 4096 Mar  4 2021 Templates
drwxr-xr-x 2 oem oem 4096 Mar  4 2021 Videos
drwxrwxr-x 2 oem oem 4096 Mar 24 21:09 vishnumohan
```

5. **ls -r**: display files and directories in reverse order.

```
oem@oem-TECRA-C50-E:~$ ls -r
vishnumohan Videos Templates snap PycharmProjects Public Pictures Music mohan Downloads Documents Desktop
```

6. **ls -a**: List all files including hidden files starting with ‘.’.

```
oem@oem-TECRA-C50-E:~$ ls -a
.          .bash_logout .config  Downloads .java  .mozilla .profile  .python_history Templates vishnumohan
..         .bashrc     Desktop  .gnupg    .local Music   Public    snap          .thunderbird
.bash_history .cache      Documents .hwdb     mohan  Pictures PycharmProjects .ssh          Videos
```

7. **ls -al**: List all files and directories along with detailed information.

```
oem@oem-TECRA-C50-E:~$ ls -al
total 108
drwxr-xr-x 22 oem oem 4096 Mar 24 21:09 .
drwxr-xr-x  3 root root 4096 Mar  4 2021 ..
-rw-r--r--  1 oem oem  172 Mar 24 21:07 .bash_history
-rw-r--r--  1 oem oem  220 Mar  4 2021 .bash_logout
-rw-r--r--  1 oem oem 3771 Mar  4 2021 .bashrc
drwx----- 40 oem oem 4096 Mar 24 21:36 .cache
drwxr-xr-x 17 oem oem 4096 Apr  3 2021 .config
drwxr-xr-x  2 oem oem 4096 Mar 17 2021 Desktop
drwxr-xr-x  2 oem oem 4096 Mar  4 2021 Documents
drwxr-xr-x  3 oem oem 4096 Dec 17 00:32 Downloads
drwx-----  3 oem oem 4096 Mar 24 20:33 .gnupg
-rw-rw-r--  1 root root    0 Mar  4 2021 .hwdb
drwxrwxr-x  4 oem oem 4096 Apr  3 2021 .java
drwx-----  3 oem oem 4096 Mar  4 2021 .local
drwxrwxr-x  2 oem oem 4096 Mar 24 20:40 mohan
drwx-----  5 oem oem 4096 Mar 11 2021 .mozilla
drwxr-xr-x  2 oem oem 4096 Mar  4 2021 Music
drwxr-xr-x  2 oem oem 4096 Mar 24 22:39 Pictures
-rw-r--r--  1 oem oem  807 Mar  4 2021 .profile
drwxr-xr-x  2 oem oem 4096 Mar  4 2021 Public
drwxrwxr-x  3 oem oem 4096 Apr  3 2021 PycharmProjects
-rw-r-----  1 oem oem  225 Apr  3 2021 .python_history
drwxr-xr-x  3 oem oem 4096 Mar 18 2021 snap
drwx-----  2 oem oem 4096 Mar 17 2021 .ssh
drwxr-xr-x  2 oem oem 4096 Mar  4 2021 Templates
drwx-----  6 oem oem 4096 Apr  3 2021 .thunderbird
drwxr-xr-x  2 oem oem 4096 Mar  4 2021 Videos
drwxrwxr-x  2 oem oem 4096 Mar 24 21:09 vishnumohan
```

8. **ls -t**: It will shows all list of files in last modified order.

```
oem@oem-TECRA-C50-E:~$ ls -t
Pictures vishnumohan mohan Downloads PycharmProjects snap Desktop Documents Music Public Templates Videos
```

9. cd: The cd command is used to change the current directory.

```
oem@oem-TECRA-C50-E:~$ cd vishnumohan
```

10. cd .. : To change the directory to parent directory of the current working directory

```
oem@oem-TECRA-C50-E:~/vishnumohan$ cd ..
```

11. cd - : To change to the previous directory from the current working directory

```
oem@oem-TECRA-C50-E:~$ cd -  
/home/oem/vishnumohan
```

12. cat > filename: To create new file.

```
oem@oem-TECRA-C50-E:~/vishnumohan$ cat>v.txt  
advanced  
computer  
networks  
^Z  
[1]+  Stopped                  cat > v.txt
```

13. Cat filename: For viewing the file.

```
oem@oem-TECRA-C50-E:~/vishnumohan$ cat v.txt  
advanced  
computer  
networks
```

14. Cat >> filename: For adding additional information to that file.

```
oem@oem-TECRA-C50-E:~/vishnumohan$ cat>>v.txt  
computer application  
^Z  
[2]+  Stopped                  cat >> v.txt
```

15. Cat filename: For viewing the file with additional information.

```
oem@oem-TECRA-C50-E:~/vishnumohan$ cat v.txt  
advanced  
computer  
networks  
computer application
```

16. Cat filename1 > filename2 : To copy the contents of one file to another file.

```
oem@oem-TECRA-C50-E:~/vishnumohan$ cat v.txt>u.txt
```

17. Cat filename2: Display the contents in the newly created file.

```
oem@oem-TECRA-C50-E:~/vishnumohan$ cat u.txt  
advanced  
computer  
networks  
computer application
```

Output Screenshot