

**NETWORKING&SYSTEM ADMINISTRATION LAB****Experiment No.: 3****Aim**

Familiarization of Linux Commands

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**Batch : B**

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**Procedure****1. pwd**

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

**Syntax :**

```
student@S38:~$ pwd
/home/student
```

**2. mkdir**

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

**Syntax :**

```
student@S38:~$ mkdir sil
```

**3. ls**

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

**Syntax :**

```
student@S38:~$ ls
Desktop  Documents  Downloads  examples.desktop  Music  Pictures  Public  PycharmProjects  sil  silvia  snap  Templates  Videos
```

#### 4. ls -l

##### Syntax :

```
student@S38:~$ ls -l
total 60
drwxr-xr-x  4 student student 4096 Nov 29 12:39 Desktop
drwxr-xr-x  4 student student 4096 Feb 21 08:51 Documents
drwxr-xr-x  2 student student 4096 Mar 24 15:27 Downloads
-rw-r--r--  1 student student 8980 Oct  4 22:02 examples.desktop
drwxr-xr-x  2 student student 4096 Oct  5 15:00 Music
drwxr-xr-x  3 student student 4096 Nov 18 12:16 Pictures
drwxr-xr-x  2 student student 4096 Oct  5 15:00 Public
drwxrwxr-x 12 student student 4096 Dec 10 11:09 PycharmProjects
drwxr-xr-x  2 student student 4096 Mar 24 15:34 sil
drwxr-xr-x  2 student student 4096 Mar 24 15:20 silvia
drwx----- 4 student student 4096 Dec 20 10:13 snap
drwxr-xr-x  2 student student 4096 Oct  5 15:00 Templates
drwxr-xr-x  2 student student 4096 Oct  5 15:00 Videos
```

#### 5. ls -R

##### Syntax :

```
student@S38:~$ ls -R
Videos Templates snap silvia sil PycharmProjects Public Pictures Music examples.desktop Downloads Documents Desktop
```

#### 6. ls -a

##### Syntax :

```
student@S38:~$ ls -a
.          .bash_logout .config  Downloads .ICEauthority .mozilla  Pictures Public      silvia  Templates
..         .bashrc     Desktop  examples.desktop .java       Music     .pki    PycharmProjects snap    .thunderbird
.bash_history .cache     Documents .gnupg     .local      .oracle_jre_usage .profile sil      .ssh    Videos
```

## 7. ls -al

**Syntax :**

```

student@S27:~$ ls -al
total 8596
drwxr-xr-x 33 student student 4096 Mar 24 14:29 .
drwxr-xr-x 6 root root 4096 Jan 13 14:26 ..
-rw-r--r-- 1 student student 21912 Feb 10 11:46 .bash_history
-rw-r--r-- 1 student student 220 Feb 8 2019 .bash_logout
-rw-r--r-- 1 student student 3771 Feb 8 2019 .bashrc
-rwx----- 23 student student 4096 Jan 14 09:10 .cache
-rw-rw-r-- 1 student student 51 Feb 11 2019 chatosttring.py
-rw-rw-r-- 1 student student 58 Feb 16 2019 concatdictry.py
drwx----- 22 student student 4096 Feb 10 11:23 .config
-rw-rw-r-- 1 student student 28 Feb 16 2019 countdict.py
-rw-rw-r-- 1 student student 90 Feb 11 2019 count.py
drwxr-xr-x 2 student student 4096 Feb 10 2020 d1
drwxr-xr-x 2 student student 4096 Feb 10 2020 d2
drwxr-xr-x 13 student student 4096 Dec 17 12:31 Desktop
-rw-rw-r-- 1 student student 114 Feb 16 2019 dictenter.py
drwxr-xr-x 3 student student 4096 Nov 29 09:41 Documents
drwxr-xr-x 2 student student 4096 Feb 10 11:39 Downloads
-rw-rw-r-- 1 student student 51 Feb 8 2019 duplicatelist.py
drwxr-xr-x 4 student student 4096 Feb 10 2020 e1
drwxr-xr-x 2 student student 4096 Feb 10 2020 e2
drwxr-xr-x 2 student student 4096 Feb 10 2020 e3
-rw-r--r-- 1 student student 8980 Feb 8 2019 examples.desktop
drwxr-xr-x 4 student student 4096 Feb 10 2020 f1
-rw-rw-r-- 1 student student 121 Mar 1 2019 fib.py
drwx----- 3 student student 4096 Feb 8 2019 .gnupg
-rw----- 1 student student 29686 Mar 24 14:00 .ICEauthority
drwxrwxr-x 2 student student 4096 Feb 8 2019 .idlerc
-rw-rw-r-- 1 student student 62 Feb 11 2019 intersection.py
drwxrwxr-x 4 student student 4096 Nov 1 2019 .java
-rw-rw-r-- 1 student student 152537 Dec 20 12:17 java_error_in_pycharm_2459.log
-rw-rw-r-- 1 student student 179733 Jan 14 11:24 java_error_in_pycharm_2495.log
-rw-rw-r-- 1 student student 162909 Nov 12 11:11 java_error_in_pycharm_2634.log
-rw-rw-r-- 1 student student 171065 Jan 7 10:38 java_error_in_pycharm_2836.log
-rw-rw-r-- 1 student student 163371 Nov 18 10:31 java_error_in_pycharm_3905.log

```

## 8. ls -t

**Syntax**

```

student@S38:~$ ls -t
sil Downloads silvia Documents snap PycharmProjects Desktop Pictures Music Public Templates Videos examples.desktop

```

## 9. cd

The cd command is used to change the current directory

**Syntax :**

```

student@S38:~$ cd sil

```

## 10. cd -

**Syntax :**

```

student@S38:~$ cd -
/home/student/sil

```

11. cat > file.txt.txt

The cat command is a multi-purpose utility in the Linux system. It can be used to create a file, display content of the file, copy the content of one file to another file, and more.

**Syntax :**

```
student@S38:~/sil$ cat > file.txt
network and administration
^Z
[1]+  Stopped                  cat > file.txt
```

12. cat >> file.txt

**Syntax :**

```
student@S38:~/sil$ cat >> file.txt
amal jyothy
^Z
[2]+  Stopped                  cat >> file.txt
```

13. cat file.txt

**Syntax :**

```
student@S38:~/sil$ cat file.txt
network and administration
amal jyothy
```

14. man

**Syntax :**

```
student@S38:~/sil$ man pwd
```

```
File Edit View Search Terminal Help
PWD(1) User Commands PWD(1)
NAME
  pwd - print name of current/working directory
SYNOPSIS
  pwd [OPTION]...
DESCRIPTION
  Print the full filename of the current working directory.
  -L, --logical
    use PWD from environment, even if it contains symlinks
  -P, --physical
    avoid all symlinks
  --help display this help and exit
  --version
    output version information and exit
  If no option is specified, -P is assumed.
  NOTE: your shell may have its own version of pwd, which usually supersedes the version
  described here. Please refer to your shell's documentation for details about the options it
  supports.
AUTHOR
  Written by Jim Meyering.
REPORTING BUGS
  GNU coreutils online help: <http://www.gnu.org/software/coreutils/>
  Report pwd translation bugs to <http://translationproject.org/team/>
Manual page pwd(1) line 1 (press h for help or q to quit)
```

