#### **NETWORKING & SYSTEM ADMINISTRATION LAB**

## **Experiment No.: 1**

Familiarization of Linux commands.

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## **Procedure**

<u>Aim</u>

1. **\$pwd:** This command is used to print working directory starting from the root.

## **Output:**

```
student@T70:~$ pwd
/home/student
```

**2. \$mkdir:** This command is used to make new directory.

## **Output:**

```
student@T70:~$ mkdir Keerthana
```

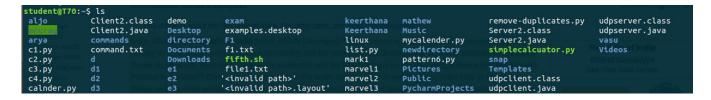
**3. \$man:** This command is used to display the user manual of any command that we can run on the terminal.

# **Output:**

```
student@T70:~$ man
```

**4.** \$\sim \text{ls} : The \frac{\text{ls}}{\text{command}} command is used to display a list of content of a directory.

# **Output:**



**5.** \$\sim 1: This command is used to list the contents of directory in table format with columns.

#### **Output:**

```
student@T70:~$ ls -l
total 280
drwxrwxr-x
           2 student student
                                 4096 Aug 22
                                                2019
                                                      aljo
drwxrwxrwx 14 student student
                                 4096 Mar
                                             5
                                                2020
drwxr-xr-x
             2 student student
                                 4096 Oct 19
                                                2019
                                                      arya
             1 student student
- FW- FW- F--
                                 8663 Oct 19
                                                2019
                                                      c1.py
             1 student student
                                  1945 Oct 19
                                                2019
                                                      c2.py
- FW- FW- F--
- FW- FW- F--
             1 student student
                                  1376 Oct 19
                                                2019
                                                      c3.py
             1 student student
                                 8423 Oct
                                           19
                                                2019
                                                      c4.py
             1 student student 10011 Oct 19
                                                2019
                                                      calnder.py
                                             3
                                                      Client2.class
             1 student student
                                  1624 Apr
                                                2019
             1 student student
                                   979 Apr
                                             3
                                                2019
                                                      Client2.java
- FW- F-- F--
```

**6.** \$ls -a: This command is used to list files or directories including hidden files or directories.

**Output:** 

```
calnder.py
Client2.class
Client2.java
                                                                  .ICEauthority
                                                                                                                             Public
                                                                                                                             .PyCharmCE2019.2
.PyCharmCE2019.3
                                                                                                                                                           udpclient.java
udpserver.class
                                         Downloads
                                                                 .idlerc
'<invalid path>'
                                                                                                   marvel2
                                                                                                   marvel3
                                                                 '<invalid path>.layout'
                                                                                                                                                           udpserver.java
                    command.txt
                                                                  .java
keerthana
                                                                                                                             remove-duplicates.pv
                                                                                                   .mozilla
                                                                                                                                                           vasu
                                                                                                                              Server2.class
.bash_history
                     .config
                                                                  Keerthana
                                         examples.desktop
                                                                                                   mycalender.py
```

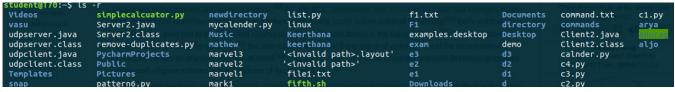
7. \$ls -al: This command is used to list files or directories in a table format with extra information with including hidden files or directories.

## **Output:**

```
student@T70:~$ ls -al
total 436
drwxr-xr-x 47 student student
                                 4096 Mar 31 15:13
drwxr-xr-x
            6 root
                                 4096 Jan 13 13:58
                       root
drwxrwxr-x
            2 student student
                                 4096 Aug 22
                                               2019
                                                     aljo
drwxrwxrwx 14 student student
                                 4096 Mar
                                            5
                                               2020
            2 student student
                                 4096 Oct 19
drwxr-xr-x
                                               2019
                                                     arya
            1 student student 28369 Mar 31 14:12
                                                      .bash history
                                                     .bash_logout
- FW- F-- F--
            1 student student
                                  220 Nov 22
                                               2018
            1 student student
                                 3771 Nov 22
                                               2018
                                                     .bashrc
 LM-L--L--
            1 student student
                                 8663 Oct 19
                                               2019
                                                     c1.py
```

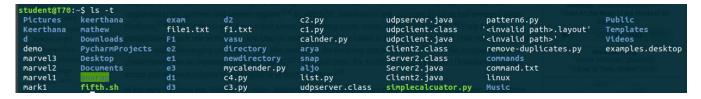
**8.** \$\sim \text{!s -r:} This command is used to display the contents of subdirectories.

### **Output:**



9. \$ls -t: It sorts the file by modification time, showing the last edited file first

#### **Output:**



**10. \$cd:** This command is used to change current working directory in linux.

#### **Output:**

```
student@T70:~$ cd Keerthana
```

**11. \$cd ..:** This command is used to move to parent directory of current directory.

#### **Output:**

```
student@T70:~/Keerthana$ cd ..
```

**12.** \$cd -: This command is used to change to previous directory.

#### **Output:**

```
student@T70:~$ cd -
/home/student/Keerthana
```

13. \$cat filename.type: It is used to display contents on the file.

## **Output:**

```
student@T70:~/Keerthana$ cat hello1.txt
Keerthana
S2MCA
Rollno11
```

**14. \$cat >filename.**type: Its is used to create filename and contents can be added on the terminal itself.

### **Output:**

```
student@T70:~/Keerthana$ cat > hello1.txt
Keerthana
S2MCA
Rollno11
^Z
[4]+ Stopped cat > hello1.txt
```

**15.** \$cat >> filename.type: It is used to append content to existing file.

#### **Output:**

```
student@T70:~/Keerthana$ cat >> hello1.txt
Amal jyothi college
^Z
[5]+ Stopped cat >> hello1.txt
```

**16.** \$cat filename.type > filename2.type: This command is used to copy contents of one file to another file.

#### **Output:**

```
student@T70:~/Keerthana$ cat hello1.txt
Keerthana
S2MCA
Rollno11
Amal jyothi college
```