Experiment No.: 3

Aim : Familiarisation of linux commands

CO2: Perform system administration task

Procedure

1.$pwd

Output screenshot :

```
student@t2:~/Desktop$ pwd
/home/student/Desktop
```

2.$ls -last directories

Output Screenshot:

```
student@t2:~$ ls
Desktop    Downloads  filesample  Pictures  PycharmProjects  Templates
Documents  file       Music       Public    snap             Videos
```

Options under $ls:-

a)$ls-R

Output Screenshot:

```
student@t2:~$ ls -R
.:
Desktop    Downloads  filesample  Pictures  PycharmProjects  Templates
Documents  file       Music       Public    snap             Videos

./Desktop:
content

./Documents:

./Downloads:

./file:
colour  four  mail  mark  new  third

./filesample:
```

b)$ls-l

Output Screenshot:

```
student@t2:~$ ls -l
total 48
drwxr-xr-x 2 student student 4096 Mar  7 15:30 Desktop
drwxr-xr-x 2 student student 4096 Jun 17  2022 Documents
drwxr-xr-x 2 student student 4096 Jun 17  2022 Downloads
drwxrwxr-x 2 student student 4096 Mar  7 15:11 file
drwxrwxr-x 3 student student 4096 Mar  7 15:20 filesample
drwxr-xr-x 2 student student 4096 Jun 17  2022 Music
drwxr-xr-x 2 student student 4096 Jun 17  2022 Pictures
drwxr-xr-x 2 student student 4096 Jun 17  2022 Public
drwxrwxr-x 3 student student 4096 Jun 17  2022 PycharmProjects
drwx------ 3 student student 4096 Jun 17  2022 snap
drwxr-xr-x 2 student student 4096 Jun 17  2022 Templates
drwxr-xr-x 2 student student 4096 Jun 17  2022 Videos
```

c) $ls-al

Output Screenshot:

```
student@t2:~$ ls -al
total 96
drwxr-xr-x 20 student student 4096 Mar  7 15:20 .
drwxr-xr-x  6 root    root    4096 Jun 17  2022 ..
-rw-------  1 student student   33 Jun 17  2022 .bash_history
-rw-r--r--  1 student student  220 Jun 17  2022 .bash_logout
-rw-r--r--  1 student student 3771 Jun 17  2022 .bashrc
drwxrwxr-x 14 student student 4096 Jun 17  2022 .cache
drwxr-xr-x 13 student student 4096 Jun 17  2022 .config
drwxr-xr-x  2 student student 4096 Mar  7 15:30 Desktop
drwxr-xr-x  2 student student 4096 Jun 17  2022 Documents
drwxr-xr-x  2 student student 4096 Jun 17  2022 Downloads
drwxrwxr-x  2 student student 4096 Mar  7 15:11 file
drwxrwxr-x  3 student student 4096 Mar  7 15:20 filesample
```

d)$ls-t

Output Screenshot

```
student@t2:~$ ls -t
Desktop  filesample  file  PycharmProjects  snap  Documents  Downloads  Music  Pictures  Public  Templates  Videos
```

3.$history

Output Screenshot:

```
student@t2:~$ history
    1  ./studio.sh
    2  ./studio.sh
    3  su mca
    4  pwd
    5  ls
    6  ls -R
    7  ls -l
    8  ls -al
    9  ls -t
   10  history
student@t2:~$
```

4.$man

eg: $man ls

Output Screenshot

```
LS(1)                                   User Commands                                   LS(1)

NAME
       ls - list directory contents

SYNOPSIS
       ls [OPTION]... [FILE]...

DESCRIPTION
       List  information  about the FILEs (the current directory by default).  Sort entries alphabetically if none of -cftuvSUX nor --sort
       is specified.

       Mandatory arguments to long options are mandatory for short options too.

       -a, --all
              do not ignore entries starting with .

       -A, --almost-all
              do not list implied . and ..

       --author
              with -l, print the author of each file

       -b, --escape
              print C-style escapes for nongraphic characters

       --block-size=SIZE
              with -l, scale sizes by SIZE when printing them; e.g., '--block-size=M'; see SIZE format below

       -B, --ignore-backups
              do not list implied entries ending with ~

       -c     with -lt: sort by, and show, ctime (time of last modification of file status information); with -l: show ctime and  sort  by
              name; otherwise: sort by ctime, newest first

 Manual page ls(1) line 1 (press h for help or q to quit)
```

5.$mkdir directory name

Output Screenshot:

6.$cd name

Output Screenshot

```
student@t2:~$ cd sara
student@t2:~/sara$
```

7.$cd. .

Output Screenshot

```
student@t2:~/sara$ cd ..
student@t2:~$
```

8.$touch filename

Output Screenshot:

```
student@t2:~/sara$ touch firsst.txt
student@t2:~/sara$ cat firsst.txt
student@t2:~/sara$ cat > firsst.txt
```

9.$cat>>filename

Output Screenshot:

```
tudent@t2:~/sara$ cat >>firsst.txt
oll no:29
Z
2]+  Stopped                 cat >> firsst.txt
tudent@t2:~/sara$
```

10.$cat -n filename

Output Screenshot:

```
sara@sara-virtual-machine:~/sara$ cat -n file3
     1  name jenny riya sara tinu
     2  age 21  21 21 24
     3  batch a b c d
     4  colour blue pink black yellow
     5  number 3     24   29    45
sara@sara-virtual-machine:~/sara$
```

11.$cat -b filename

Output Screenshot:

12.$cat -e filename

Output Screenshot:

```
sara@sara-virtual-machine:~/sara$ cat -e file3
name jenny riya sara tinu$
age 21  21 21 24$
batch a b c d$
colour blue pink black yellow$
number 3     24   29    45$
place vechoochira  mukkoottuthara koovappally mundakkayam$
sara@sara-virtual-machine:~/sara$
```

13.$cat c.txt | tr a-z A-Z > output.txt

Output Screenshot:

```
student@t2:~/sara$ cat third.txt|tr a-z A-Z
NAME:SARA
COURSE:MCA
ROLL NO:29
HAI
HELLO
student@t2:~/sara$
```

Result

The program was executed and the result was successfully obtained. Thus Co2 was obtained.