

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


Familiarization of the Linux commands.

Procedure**1. pwd**

This command is used to display the location of the current working directory.

Syntax :- \$ pwd

Output :-

A terminal window with a dark purple background. The prompt is 'student@S7:~\$' in green. The command 'pwd' is entered in white. The output '/home/student' is displayed in white below the command.**2. mkdir**

This command is used to create a new directory under any directory.

Syntax :- \$ mkdir <directory name>

Output :-

A terminal window with a dark purple background. The prompt is 'student@S7:~\$' in green. The command 'mkdir jobin' is entered in white. The output is not visible, indicating successful execution.**3. ls**

This command is used to display a list of content of directory.

Syntax :- \$ ls

Output :-

```

student@S7:~$ ls
12calu16.py      f11              p.py
ajce             f1.txt           prime.sh
anandhu          f2.txt           project
Anju             factparaconst    project1
a.py             factparaconst.cpp project1.cpp
a.txt            factparaconst.o  project1.o
bfs.c            fibnocc.sh        project2
bst.c            file.txt          project2.cpp
bst.cpp          Firstfile.txt     project2.o
bst.o            hierarchical       project.cpp
b.txt            hierarchical.cpp   project.o
b.xt             hierarchical.o     Public
calender.py      hybrid            PycharmProjects
'circular queue' hybrid.cpp         readwritetofile
'circular queue.c' hybrid.o           readwritetofile.cpp
'circular queue.o' inheritace1        readwritetofile.o
'c11 cre'         inheritace1.cpp   rt.sh
'c11 cre.c'       inheritace1.o     Secondfile.txt
'c11 cre.o'       inheritance2.cpp  shell
copyfile          '<invalid path>'  snap
copyfile.cpp      '<invalid path>.layout' socketudp
copyfile.o        jk.sh            sportsinh

```

5. ls -l

This command is used to shows file or directory, size, modified date and time, file or folder name and owner of the file, and its permission.

Syntax :- \$ ls -l

Output:-

```

student@S7:~$ ls -l
total 1044
-rw-rw-r-- 1 student student 105 Nov 12 12:36 12calu16.py
drwxr-xr-x 3 student student 4096 Feb 7 2019 ajce
drwxr-xr-x 2 student student 4096 Feb 17 2020 anandhu
drwxr-xr-x 2 student student 4096 Mar 5 2019 Anju
-rw-rw-r-- 1 student student 880 Oct 19 2019 a.py
-rw-r--r-- 1 student student 8 Jan 16 2020 a.txt
-rw-rw-r-- 1 student student 1 Nov 12 2019 bfs.c
-rw-rw-r-- 1 student student 4034 Nov 19 2019 bst.c
-rw-rw-r-- 1 student student 1 Nov 14 2019 bst.cpp
-rw-rw-r-- 1 student student 5800 Nov 19 2019 bst.o
-rw-r--r-- 1 student student 8 Jan 16 2020 b.txt
-rw-r--r-- 1 student student 8 Jan 16 2020 b.xt
-rw-rw-r-- 1 student student 24533 Oct 19 2019 calender.py
-rwxrwxr-x 1 student student 12840 Oct 29 2019 'circular queue'
-rw-rw-r-- 1 student student 2514 Oct 29 2019 'circular queue.c'
-rw-rw-r-- 1 student student 7056 Oct 29 2019 'circular queue.o'
-rwxrwxr-x 1 student student 8672 Oct 29 2019 'c11 cre'
-rw-rw-r-- 1 student student 1418 Oct 29 2019 'c11 cre.c'

```

6. ls -a

This command is used to list all files including hidden files.

Syntax :- \$ls -a

Output :-

```
student@S7:~$ ls -a
.          f11          personinh.cpp
..         f1.txt       personinh.o
12calu16.py f2.txt       Pictures
.abi       .factorial.sh.swp .pki
ajce       .factorial.sh.swp p.py
anandhu    factparaconst prime.sh
Anju       factparaconst.cpp .profile
a.py       factparaconst.o   project
a.txt      fibnocci.sh       project1
.ballz_saves.txt file.txt          project1.cpp
.bash_history Firstfile.txt    project1.o
.bash_logout .gimp-2.8        project2
.bashrc     .gnupg           project2.cpp
bfs.c       hierarchical     project2.o
bst.c       hierarchical.cpp project.cpp
bst.cpp     hierarchical.o  project.o
bst.o       hybrid       Public
b.txt      hybrid.cpp    .PyCharmCE2018.3
b.xt       hybrid.o     .PyCharmCE2019.3
```

7. ls -al

This command is used to

Syntax :- \$ ls -al

Output :-

```
jobin@jobin-VirtualBox:~$ ls -al
total 84
drwxr-xr-x 17 jobin jobin 4096 Apr  2 20:43 .
drwxr-xr-x  3 root  root  4096 Mar 27 21:36 ..
-rw-r--r--  1 jobin jobin   24 Apr  2 20:43 .bash_history
-rw-r--r--  1 jobin jobin  220 Mar 27 21:36 .bash_logout
-rw-r--r--  1 jobin jobin 3771 Mar 27 21:36 .bashrc
drwx----- 15 jobin jobin 4096 Apr  3 09:58 .cache
drwx----- 12 jobin jobin 4096 Apr  3 09:58 .config
```

8. ls -t

This command is used to display files in the last modified order.

Syntax :- \$ ls -t

Output :-

```
jobin@jobin-VirtualBox:~$ ls -t
Pictures Desktop Downloads Public Videos
snap Documents Music Templates
```

9. cd

This command is used to change the current directory.

Syntax :- \$ cd <directory name>

Output :-

10. cd ..

This command is used to move to the parent directory of current directory, or the directory one level up from the current directory.

Syntax :- \$ cd ..

Output :-

```
jobin@jobin-VirtualBox:~$ cd jobin
bash: cd: jobin: No such file or directory
```

11. cd –

This command is used to switch back to previous directory we were working earlier.

Syntax :- \$ cd –

Output :-

```
jobin@jobin-VirtualBox:~$ cd ..
jobin@jobin-VirtualBox:/home$ cd -
/home/jobin
```

12. cat > filename

This command is used to create a file and add contents to that file.

Syntax :- \$ cat > filename.txt

Output :-

13. cat >> filename

This command is used to add contents to an existing file.

Syntax :- \$ cat >> filename.txt

Output :-

```
jobin@jobin-VirtualBox:~$ cat >> demo.txt
Hackers playground->kali linux
^Z
[3]+  Stopped                  cat >> demo.txt
```

14. cat filename1 > filename2

This command is used to copy the content from one file to another file.

Syntax :- \$ cat filename1 > filename2

Output :-

```
jobin@jobin-VirtualBox:~$ cat demo.txt > copy.txt
jobin@jobin-VirtualBox:~$ cat copy.txt
Hackers playground->kali linux
```