

LAB – 1

AIM – Basic Commands of Linux

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1) whoami - displays information about user logged into the system

```
shruti@shruti-VirtualBox:~$ whoami  
shruti
```

2) pwd - displays the current directory

```
shruti@shruti-VirtualBox:~$ pwd  
/home/shruti
```

3) ls - displays the names of files or lists the content of a directory

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

4) ls -R -> list also files/directories which begin with a dot

```
shruti@shruti-VirtualBox:~$ ls -R  
.:  
Desktop Documents Downloads Music Pictures Public snap Templates Videos  
./Desktop:  
./Documents:  
linuxReads Test testpc  
./Documents/linuxReads:  
Linux_for_beginners.pdf LP_LECTURE_NOTES.pdf  
./Documents/Test:  
file1cp.txt file1.txt newfile.txt  
./Documents/testpc:  
file1cp.txt file1.txt  
./Downloads:  
./Music:  
./Pictures:  
linuximg.jpeg ubuntuimg.jpg  
./Public:  
./snap:  
firefox snapd-desktop-integration snap-store
```

5) ls -a -> list also files/directories which begin with a dot

```
shruti@shruti-VirtualBox:~$ ls -a
.          .bashrc  Documents  .local    .profile  .sudo_as_admin_successful  .vboxclient-draganddrop.pid
..         .cache  Downloads  .mozilla  Public    Templates                  .vboxclient-seamless.pid
.bash_history  .config  .gnupg    Music     snap      .thunderbird              .vboxclient-vmsvga-session-tty2.pid
.bash_logout  Desktop  .lessht   Pictures  .ssh      .vboxclient-clipboard.pid  Videos
shruti@shruti-VirtualBox:~$ history
```

6) history - used to view the previously executed command

```
shruti@shruti-VirtualBox:~$ history
1  sudo apt update
2  sudo apt install -y build-essential linux-headers-$(uname -r)
3  -ls
4  ls
5  whoami
6  --version
7  version
8  man man
9  man pwd
10 pwd
11 cd /home
12 cd shruti/
13 cd /home
14 cd
15 man ls
16 whoami
17 cd Doc
18 cd Documents/
19 ls
20 ls -a
21 clear
```

7) clear - clear all the previously entered commands

```
shruti@shruti-VirtualBox:~$ ls
Desktop Documents Downloads Music Pictures Public snap
shruti@shruti-VirtualBox:~$ clear

shruti@shruti-VirtualBox:~$
```

8) echo - display line of text/string that are passed as an argument

```
shruti@shruti-VirtualBox:~$ echo Hello Ubuntu
Hello Ubuntu
shruti@shruti-VirtualBox:~$ cd Desktop/
```

9) touch – new file created

```
shruti@shruti-VirtualBox:~$ cd Desktop/
shruti@shruti-VirtualBox:~/Desktop$ touch file.txt
shruti@shruti-VirtualBox:~/Desktop$ ls
file.txt
shruti@shruti-VirtualBox:~/Desktop$
```

10) rm - Delete files and/or directories

```
shruti@shruti-VirtualBox:~$ cd Desktop/  
shruti@shruti-VirtualBox:~/Desktop$ touch file.txt  
shruti@shruti-VirtualBox:~/Desktop$ rm file.txt  
shruti@shruti-VirtualBox:~/Desktop$ ls  
shruti@shruti-VirtualBox:~/Desktop$
```

11) mkdir - creates an empty directory

```
shruti@shruti-VirtualBox:~$ cd Desktop/  
shruti@shruti-VirtualBox:~/Desktop$ mkdir assign1  
shruti@shruti-VirtualBox:~/Desktop$ ls  
assign1  
shruti@shruti-VirtualBox:~/Desktop$
```

12) rmdir - deletes an empty directory

```
shruti@shruti-VirtualBox:~$ cd Desktop/  
shruti@shruti-VirtualBox:~/Desktop$ mkdir assign1  
shruti@shruti-VirtualBox:~/Desktop$ ls  
assign1  
shruti@shruti-VirtualBox:~/Desktop$  
shruti@shruti-VirtualBox:~/Desktop$ rmdir assign1  
shruti@shruti-VirtualBox:~/Desktop$ ls  
shruti@shruti-VirtualBox:~/Desktop$  
shruti@shruti-VirtualBox:~/Desktop$
```

13) mv commands - Rename or move files or directories

```
shruti@shruti-VirtualBox:~$ ls  
Desktop Documents Downloads Music Pictures Public snap Templates Videos  
shruti@shruti-VirtualBox:~$ cd Documents/  
shruti@shruti-VirtualBox:~/Documents$ touch myfile.txt  
shruti@shruti-VirtualBox:~/Documents$ ls  
linuxReads myfile.txt Test testpc  
shruti@shruti-VirtualBox:~/Documents$ mv myfile.txt Test  
shruti@shruti-VirtualBox:~/Documents$ ls  
linuxReads Test testpc  
shruti@shruti-VirtualBox:~/Documents$ ls Test/  
file1cp.txt file1.txt myfile.txt newfile.txt  
shruti@shruti-VirtualBox:~/Documents$
```

14) cd - Changes into the given directory

```
shruti@shruti-VirtualBox:~$ cd Desktop/  
shruti@shruti-VirtualBox:~/Desktop$ pwd  
/home/shruti/Desktop  
shruti@shruti-VirtualBox:~/Desktop$ cd ..  
shruti@shruti-VirtualBox:~$ pwd  
/home/shruti  
shruti@shruti-VirtualBox:~$
```

15) cmp – compare given files

```
shruti@shruti-VirtualBox:~/Documents$ ls
linuxReads  Test  testpc
shruti@shruti-VirtualBox:~/Documents$ cd Test/
shruti@shruti-VirtualBox:~/Documents/Test$ ls
file1.txt  file2.txt
shruti@shruti-VirtualBox:~/Documents/Test$ cmp file1.txt file2.txt
file1.txt file2.txt differ: byte 6, line 1
shruti@shruti-VirtualBox:~/Documents/Test$
```

16) cat - displays the content of a file

```
shruti@shruti-VirtualBox:~/Documents$ ls
linuxReads  Test  testpc
shruti@shruti-VirtualBox:~/Documents$ cd Test/
shruti@shruti-VirtualBox:~/Documents/Test$ ls
file1.txt  file2.txt
shruti@shruti-VirtualBox:~/Documents/Test$ cmp file1.txt file2.txt
file1.txt file2.txt differ: byte 6, line 1
shruti@shruti-VirtualBox:~/Documents/Test$ cat file2.txt
Hello Ubuntu
shruti@shruti-VirtualBox:~/Documents/Test$
```

17) cal – displays calender

```
shruti@shruti-VirtualBox:~$ cal
      January 2023
Su Mo Tu We Th Fr Sa
 1  2  3  4  5  6  7
 8  9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31
```

18) grep - used to search a string of characters in a file

```
shruti@shruti-VirtualBox:~$ cd Documents/
shruti@shruti-VirtualBox:~/Documents$ ls
linuxReads  Test  testpc
shruti@shruti-VirtualBox:~/Documents$ cd Test/
shruti@shruti-VirtualBox:~/Documents/Test$ ls
file1.txt  file2.txt
shruti@shruti-VirtualBox:~/Documents/Test$ cat file2.txt
Hello Ubuntu
shruti@shruti-VirtualBox:~/Documents/Test$ grep Ubuntu file2.txt
Hello Ubuntu
shruti@shruti-VirtualBox:~/Documents/Test$
```

19) free - displays the amount of memory in megabytes

```
shruti@shruti-VirtualBox:~$ free
              total        used         free       shared    buff/cache   available
Mem:      6635068      1275912      2094720         57324       3264436       5046024
Swap:      2097148           0         2097148
```

20) uname - displays the information about the system

```
shruti@shruti-VirtualBox:~$ uname
Linux
shruti@shruti-VirtualBox:~$
```

21) groups - names of the primary and supplementary **groups** for username

```
shruti@shruti-VirtualBox:~$ groups
shruti adm cdrom sudo dip plugdev lpadmin lxd sambashare
shruti@shruti-VirtualBox:~$
shruti@shruti-VirtualBox:~$
```

22) comm – compare command

```
shruti@shruti-VirtualBox:~$ cd Documents/
shruti@shruti-VirtualBox:~/Documents$ ls
linuxReads  Test  testpc
shruti@shruti-VirtualBox:~/Documents$ cd Test/
shruti@shruti-VirtualBox:~/Documents/Test$ ls
file1.txt  file2.txt
shruti@shruti-VirtualBox:~/Documents/Test$ cat file1.txt
Hello Linux
Hello World
shruti@shruti-VirtualBox:~/Documents/Test$ cat file2.txt
Hello World
Hello Ubuntu
shruti@shruti-VirtualBox:~/Documents/Test$ comm file1.txt file2.txt
Hello Linux
          Hello World
comm: file 2 is not in sorted order
          Hello Ubuntu
comm: input is not in sorted order
shruti@shruti-VirtualBox:~/Documents/Test$
```

23) date - display the system date and time

```
shruti@shruti-VirtualBox:~$ date
Friday 27 January 2023 07:55:12 PM IST
shruti@shruti-VirtualBox:~$ █
```