

# Linux Activity–1 (commands)

Name: Pranav H Raikar    USN : ENG24CY0041.    CY 3B (39)

Activity -1

part 1

man ls -b

Description: Print non-graphic characters (special chars, control chars) in C-style escape sequences (e.g., newline as \n, tab as \t).

(pranav㉿kali)-[~]

```
└─$ ls -b
```

Desktop Documents Downloads hash.txt heloooo.txt hi Music Pictures Public  
Templates Videos

man ls -c

Description: Sort files by ctime (time of last modification of file status) instead of modification time (-t).

When listing long format (-l), show ctime instead of modification time.

(pranav㉿kali)-[~]

```
└─$ ls -c
```

Downloads hash.txt heloooo.txt Desktop Documents Music Pictures Public Templates  
Videos

man ls -d

Description: List the directory name itself, not its contents.

Example: ls -d /etc → shows /etc instead of listing everything inside /etc.

(pranav㉿kali)-[~]

```
└─$ ls -d Downloads
```

Downloads.

man ls -f

Description: Do not sort files, just list them in the order found in the directory.

Also enable -a (show hidden files) and disable formatting.

(pranav㉿kali)-[~]

└\$ ls -f

man ls -b

Description: Print non-graphic characters (special chars, control chars) in C-style escape sequences (e.g., newline as \n, tab as \t).

(pranav㉿kali)-[~]

└\$ ls -b Desktop Documents Downloads hash.txt hellooo.txt Templates Videos

man ls -c

Description: Sort files by c time (time of last modification of file status) instead of modification time (-t). When listing long format (-l), show ctime instead of modification time.

(pranav㉿kali)-[~]

└\$ ls -c hi Downloads hash.txt hellooo.txt Templates Videos

man ls -d

Description: List the directory name itself, not its contents. Example: ls -d /etc → shows /etc instead of listing everything inside /etc. (pranav㉿kali)-[~] └\$ ls -d Downloads  
Downloads

man ls -f

Description: Do not sort files, just list them in the order found in the directory. Also enable -a (show hidden files) and disable formatting.

(pranav㉿kali)-[~]

└─\$ ls -f

.bash\_logout .

face.icon

.local Desktop Downloads

.face

.profile Music

.zsh\_history

.john .config .zprofile Public .mozilla hash.txt hi .java .cache .bashrc.original Videos  
Documents .. .bashrc .sudo\_as\_admin\_successful Templates .zshrc . hellooo.txt Pictures

man ls -g

Description: Same as -l, but do not show the owner field. Lists group info only.

-(pranav㉿kali)-[~]

└─\$ ls -g total 44 drwxr-xr-x 2

pranav 4096 Jul 20 17:34 Desktop drwxr-xr-x 2

pranav 4096 Jul 20 17:34 Documents drwxr-xr-x 2

pranav 4096 Jul 20 18:51 Downloads -rw-rw-r-- 1

pranav 29 Jul 20 18:39 hash.txt -rw-rw-r—1

pranav 8 Jul 2017:36 heloooo.txt drwxrwxr-x 2

pranav 4096 Aug 24 15:59 hi drwxr-xr-x 2

pranav 4096 Jul 20 17:34 Music drwxr-xr-x 2

pranav 4096 Jul 20 17:34 Pictures drwxr-xr-x 2

pranav 4096 Jul 20 17:34 Public drwxr-xr-x 2

pranav 4096 Jul 20 17:34 Templates drwxr-xr-x 2

pranav 4096 Jul 20 17:34 Videos

`man ls -h`

Description: With -l, print file sizes in human-readable format (e.g., 1K, 234M, 2G). (

pranav (kali)-[~]

```
└$ ls -h Desktop Documents Downloads hash.txt hellooo.txt hi Music Pictures Public  
Templates Videos
```

**man ls -i**

Description: Print the inode number of each file.

(pranay<sup>K</sup>kali)-[~]

```
└$ ls -i 2621633 Desktop 2621634 Downloads 2621768 hellooo.txt 2621638 Music  
2621636 Public 2621640 Videos 2621637 Documents 2621961 hash.txt 2621981 hi  
2621639 Pictures 2621635 Templates
```

man ls -l

Description: Use long listing format. Shows details like permissions, owner, group, size, and timestamp.

(pranav $\circlearrowleft$ kali)-[~]

```
└$ ls -l total 44 drwxr-xr-x 2 pranav  
pranav 4096 Jul 20 17:34 Desktop drwxr-xr-x 2 pranav  
pranav 4096 Jul 20 17:34 Documents drwxr-xr-x 2 pranav  
pranav 4096 Jul 20 18:51 Downloads -rw-rw-r-- 1 pranav  
pranav 29 Jul 20 18:39 hash.txt -rw-rw-r-- 1 pranav  
pranav 8 Jul 20 17:36 hellooo.txt drwxrwxr-x 2 pranav  
pranav 4096 Aug 24 15:59 hi drwxr-xr-x 2 pranav  
pranav 4096 Jul 20 17:34 Music drwxr-xr-x 2 pranav  
pranav 4096 Jul 20 17:34 Pictures drwxr-xr-x 2 pranav  
pranav 4096 Jul 20 17:34 Public drwxr-xr-x 2 pranav  
pranav 4096 Jul 20 17:34 Templates drwxr-xr-x 2 pranav  
pranav 4096 Jul 20 17:34 Videos
```

man ls -m

Description: List files as a comma-separated list, across the screen.

(pranav㉿kali)-[~]

```
└$ ls -m Desktop,Documents,Downloads,hash.txt,hellooo.txt,hi,Music,Pictures,  
Public,Templates,videos man ls -n
```

Description: Like -l, but show user and group IDs as numbers, instead of names.

(pranav㉿kali)-[~]

```
└$ ls -n total 44 drwxr-xr-x 2 1000 1000 4096 Jul 20 17:34
```

Desktop drwxr-xr-x 2 1000 1000 4096 Jul 20 17:34

Documents drwxr-xr-x 2 1000 1000 4096 Jul 20 18:51

Downloads -rw-rw-r-- 1 1000 1000 29 Jul 20 18:39

hash.txt -rw-rw-r-- 1 1000 1000 8 Jul 20 17:36

hellooo.txt drwxrwxr-x 2 1000 1000 4096 Aug 24 15:59

hi drwxr-xr-x 2 1000 1000 4096 Jul 20 17:34

Music drwxr-xr-x 2 1000 1000 4096 Jul 20 17:34

Pictures drwxr-xr-x 2 1000 1000 4096 Jul 20 17:34

Public drwxr-xr-x 2 1000 1000 4096 Jul 20 17:34

Templates drwxr-xr-x 2 1000 1000 4096 Jul 20 17:34 Videos

man ls -o

Description: Like -l, but omit the group info.

(pranav㉿kali)-[~]

└\$ ls -o total 44 drwxr-xr-x 2 pranav 4096 Jul 20 17:34

Desktop drwxr-xr-x 2 pranav 4096 Jul 20 17:34

Documents drwxr-xr-x 2 pranav 4096 Jul 20 18:51

Downloads -rw-rw-r-- 1 pranav 29 Jul 20 18:39

hash.txt -rw-rw-r-- 1 pranav 8 Jul 20 17:36

hellooo.txt drwxrwxr-x 2 pranav 4096 Aug 24 15:59

hi drwxr-xr-x 2 pranav 4096 Jul 20 17:34

Music drwxr-xr-x 2 pranav 4096 Jul 20 17:34

Pictures drwxr-xr-x 2 pranav 4096 Jul 20 17:34

Public drwxr-xr-x 2 pranav 4096 Jul 20 17:34

```
Templates drwxr-xr-x 2 pranav 4096 Jul 20 17:34 Videos
```

```
man ls -p
```

Description: Append / to directory names when listing. Example: ls -p → docs/ file.txt  
(pranav㉿kali)-[~]

```
└$ ls -p
```

```
Desktop/ Documents/ Downloads/ hash.txt hellooo.txt hi/ Music/ Pictures/ Public/  
Templates/ Videos/
```

```
man ls -q
```

Description: Print non-printable characters as ?. Useful if filenames have weird chars.  
(pranav㉿kali)-[~]

```
└$ ls -q Desktop Documents Downloads hash.txt hellooo.txt hi Music Pictures Public  
Templates Videos
```

```
man ls -r
```

Description: Reverse order of sorting. Example: ls -r → last file first.

```
(pranav㉿kali)-[~]
```

```
└$ ls -r Videos Templates Public Pictures Music hi hellooo.txt
```

```
hash.txt Downloads Documents Desktop
```

```
man ls -s
```

Description: Print the allocated size (blocks) of each file. Example: ls -s file.txt

(pranav㉿kali)-[~]

└─\$ ls -s total 44

4 Desktop 4 Documents 4 Downloads 4 hash.txt 4 hellooo.txt 4 hi 4 Music 4 Pictures 4 Public 4 Templates 4 Videos man ls -t

Description: Sort files by modification time (newest first).

(pranav㉿kali)-[~]

└─\$ ls -t hi Downloads hash.txt hellooo.txt

Desktop Documents Music Pictures Public Templates Videos

man ls -u

Description: Sort files by last access time. With -l, show the access time instead of modification.

(pranav㉿kali)-[~]

└─\$ ls -u

hi Music Pictures Public Videos Documents Downloads Desktop Templates hash.txt hellooo.txt

man ls -v

Description: Sort files naturally by version (e.g., file1, file2, file10).

(pranav㉿kali)-[~]

└─\$ ls -v

Desktop Documents Downloads Music Pictures Public Templates Videos hash.txt hellooo.txt

```
man ls -w
```

Description: Set the line width for displaying multiple columns. Example: ls -w 50 ls -w 50  
Desktop hash.txt Music Templates Documents hellooo.txt Pictures Videos Downloads hi  
Public

```
man ls -x
```

Description: List files in columns, sorted horizontally.

(pranav㉿kali)-[~]

```
└$ ls -x
```

Desktop Documents Downloads hash.txt hellooo.txt hi Music Pictures Public Templates  
Videos

```
man ls -y
```

Not available (skipped, not in GNU ls).

```
man ls -Z
```

Description: Display each file's SELinux security context (if enabled).

(pranav㉿kali)-[~]

```
└$ ls -Z ? Desktop ? Documents ? Downloads ? hash.txt ? hellooo.txt ? hi ? Music ?  
Pictures ? Public ? Templates ? Videos
```

## part 2 whoami

Prints the current logged-in user's name. Example: whoami pranav

```
pwd
```

Prints the present working directory (current folder path). Example: /home/pranav

cd

Change directory. Without arguments, goes to home directory. Example: cd :  
/home/pranav cd Documents /home/pranav/Documents

cd /

Changes to the root directory (/).

cd ..

Goes one level up from current directory. Example: /home/pranav/Downloads => cd .. =>  
/home/pranav

cd

Change to the given path. Example: cd /etc=> current directory is /etc.

Activity 1: part B:

tree command tree -l -L 1

Show directory tree with symbolic links (-l), depth limited to 1 level.

(pranav㉿kali)-[~]

```
└$ tree -l -L 1 .
```

```
    └── Desktop
```

```
    └── Documents
```

```
    └── Downloads
```

```
    └── hash.txt
```

```
    └── hellooo.txt
```

```
    └── hi
```

```
|--- Music  
|--- Pictures  
|--- Public  
|--- Templates  
└--- Videos
```

```
tree -l -L 2
```

Same, but show 2 levels deep.

```
(pranav㉿kali)-[~]
```

```
└$ tree -l -L 2 .  
├--- Desktop  
├--- Documents  
├--- Downloads  
|   |--- converted_text-1.pdf  
|   |--- converted_text.pdf  
|   |--- converted_text_protected.pdf  
|   └--- hash.txt  
    |--- hash.txt  
    |--- hellooo.txt  
    |--- hi  
    |--- Music  
    |--- Pictures
```

```
|--- Public  
|--- Templates  
└--- Videos
```

10 directories, 6 files

tree -l -L 3

Same, but show 3 levels deep.

```
─(pranav㉿kali)-[~]  
└─$ tree -l -L 3  
  
.  
├--- Desktop  
├--- Documents  
├--- Downloads  
│   ├--- converted_text-1.pdf  
│   ├--- converted_text.pdf  
│   ├--- converted_text_protected.pdf  
|   └--- hash.txt  
├--- hash.txt  
├--- hellooo.txt  
├--- hi  
├--- Music  
├--- Pictures  
└--- Public
```

```
|--- Templates
```

```
└--- Videos
```

```
tree /var/log/apt -La 1
```

Show contents of /var/log/apt, including hidden files (-a), limit depth to 1, and follow symlinks (-l). –

```
(pranav㉿kali)-[~]
```

```
└─$ tree /var/log/apt -La 1 /var/log/apt
```

```
    └--- eipp.log.xz
```

```
    └--- history.log
```

```
    └--- history.log.1.gz
```

```
    └--- term.log └--- term.log.1.gz
```

```
1 directory, 5 files
```