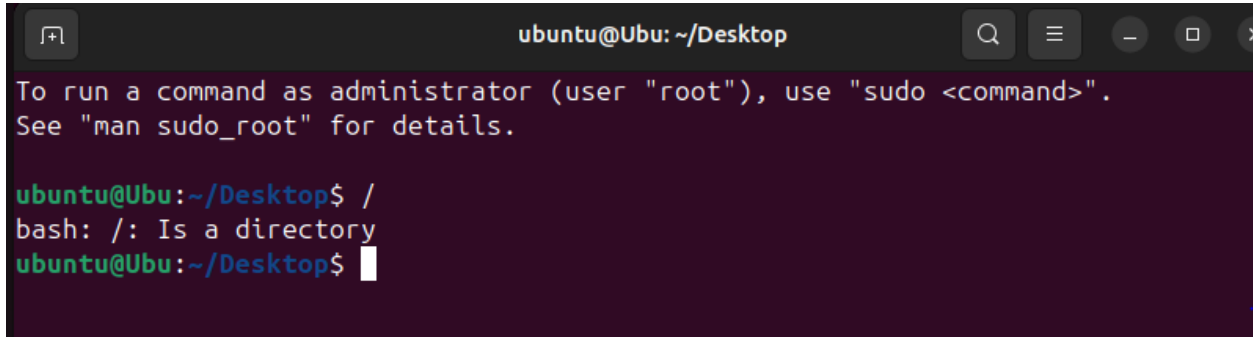


## Linux commands

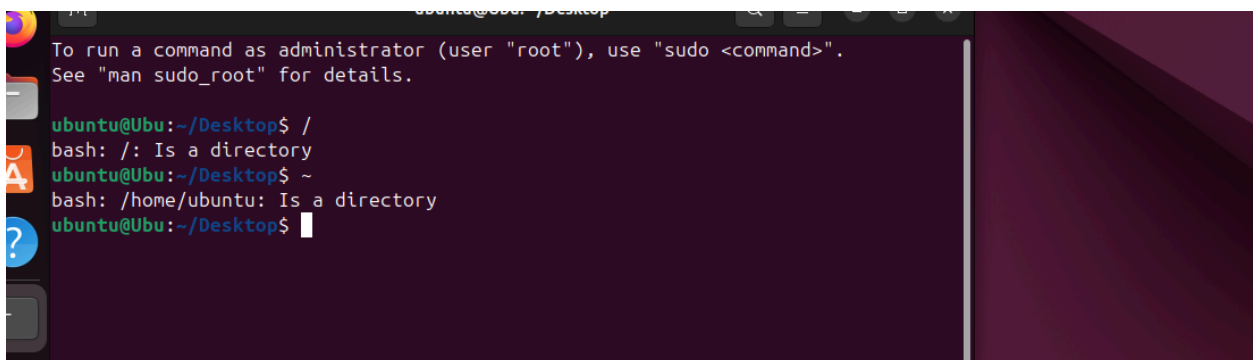
1. / (Forward Slash) - Root directory



```
ubuntu@Ubu: ~/Desktop
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@Ubu:~/Desktop$ /
bash: /: Is a directory
ubuntu@Ubu:~/Desktop$
```

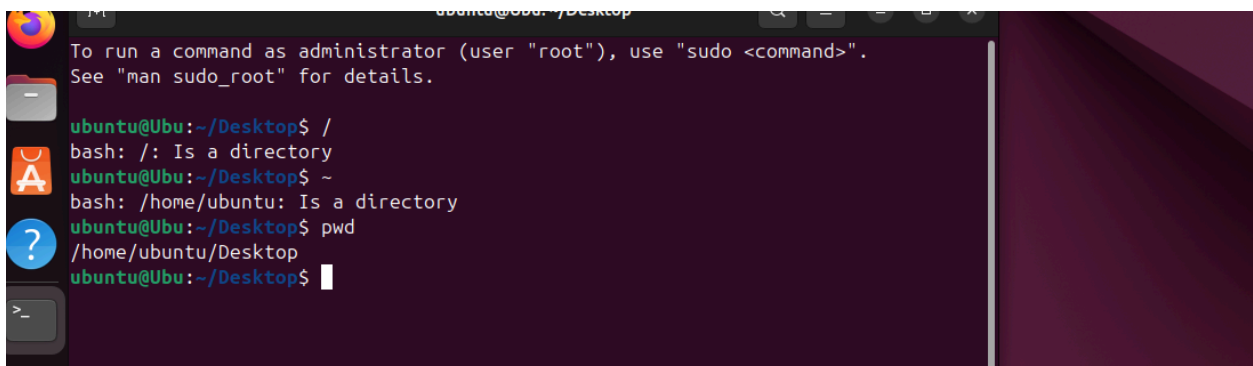
2. ~ (Tild) --Home Directory



```
ubuntu@Ubu: ~/Desktop
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@Ubu:~/Desktop$ /
bash: /: Is a directory
ubuntu@Ubu:~/Desktop$ ~
bash: /home/ubuntu: Is a directory
ubuntu@Ubu:~/Desktop$
```

3. Pwd - present working directory



```
ubuntu@Ubu: ~/Desktop
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@Ubu:~/Desktop$ /
bash: /: Is a directory
ubuntu@Ubu:~/Desktop$ ~
bash: /home/ubuntu: Is a directory
ubuntu@Ubu:~/Desktop$ pwd
/home/ubuntu/Desktop
ubuntu@Ubu:~/Desktop$
```

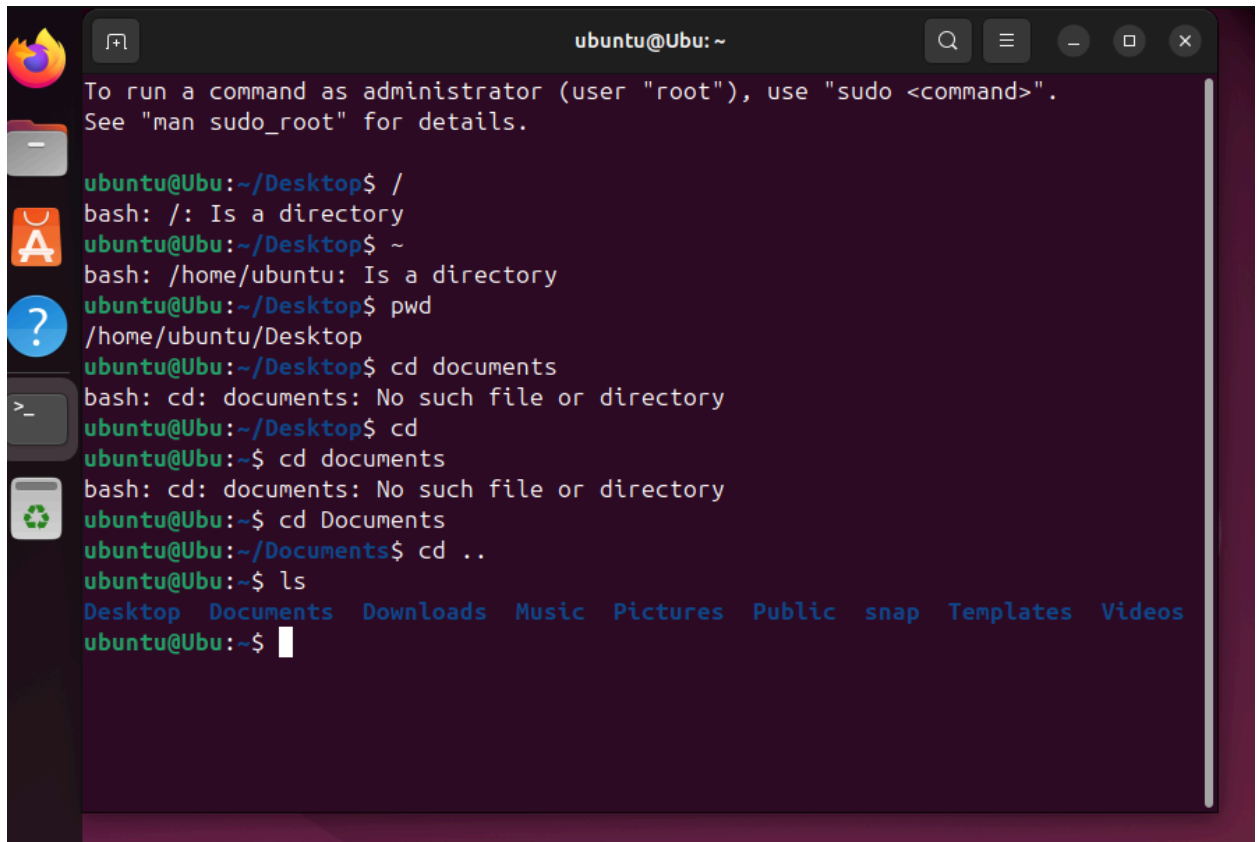
4. Cd - change directory from one to another

```
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ubuntu@Ubu:~/Desktop$ /  
bash: /: Is a directory  
ubuntu@Ubu:~/Desktop$ ~  
bash: /home/ubuntu: Is a directory  
ubuntu@Ubu:~/Desktop$ pwd  
/home/ubuntu/Desktop  
ubuntu@Ubu:~/Desktop$ cd documents  
bash: cd: documents: No such file or directory  
ubuntu@Ubu:~/Desktop$ cd  
ubuntu@Ubu:~$ cd documents  
bash: cd: documents: No such file or directory  
ubuntu@Ubu:~$ cd Documents  
ubuntu@Ubu:~/Documents$
```

5. Cd .. --help us to go back to previous directory

```
ubuntu@Ubu:~  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ubuntu@Ubu:~/Desktop$ /  
bash: /: Is a directory  
ubuntu@Ubu:~/Desktop$ ~  
bash: /home/ubuntu: Is a directory  
ubuntu@Ubu:~/Desktop$ pwd  
/home/ubuntu/Desktop  
ubuntu@Ubu:~/Desktop$ cd documents  
bash: cd: documents: No such file or directory  
ubuntu@Ubu:~/Desktop$ cd  
ubuntu@Ubu:~$ cd documents  
bash: cd: documents: No such file or directory  
ubuntu@Ubu:~$ cd Documents  
ubuntu@Ubu:~/Documents$ cd ..  
ubuntu@Ubu:~$
```

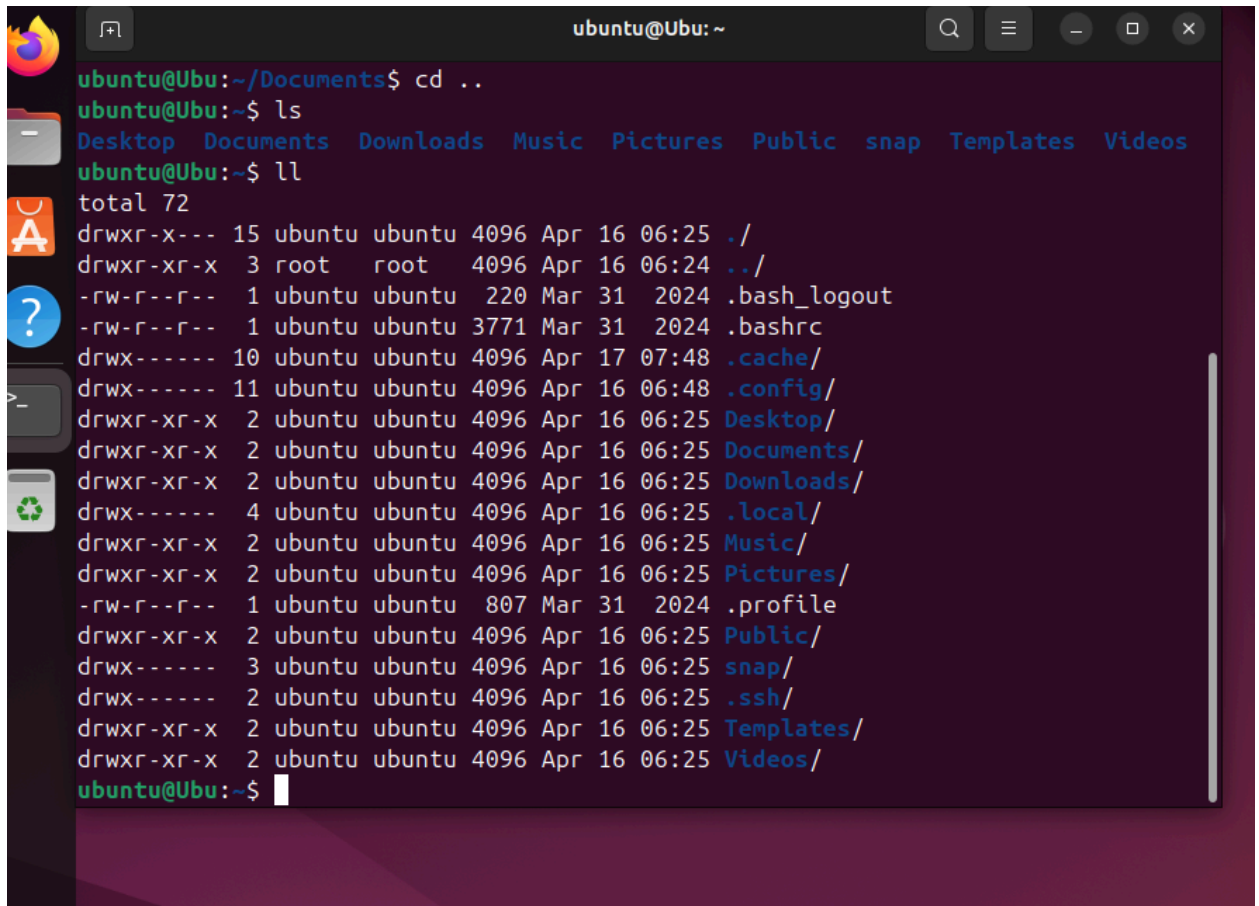
Ls – list of all files available in directory



A terminal window titled 'ubuntu@Ubu: ~' with standard Ubuntu window controls. The terminal shows a series of commands and their outputs. It starts with a message about using 'sudo' for administrative tasks. The user then attempts to navigate to the root directory, their home directory, and the 'documents' directory, encountering errors for each. Finally, they successfully navigate to the 'Documents' directory and run the 'ls' command, which lists the contents of the directory.

```
ubuntu@Ubu: ~  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ubuntu@Ubu:~/Desktop$ /  
bash: /: Is a directory  
ubuntu@Ubu:~/Desktop$ ~  
bash: /home/ubuntu: Is a directory  
ubuntu@Ubu:~/Desktop$ pwd  
/home/ubuntu/Desktop  
ubuntu@Ubu:~/Desktop$ cd documents  
bash: cd: documents: No such file or directory  
ubuntu@Ubu:~/Desktop$ cd  
ubuntu@Ubu:~$ cd documents  
bash: cd: documents: No such file or directory  
ubuntu@Ubu:~$ cd Documents  
ubuntu@Ubu:~/Documents$ cd ..  
ubuntu@Ubu:~$ ls  
Desktop  Documents  Downloads  Music  Pictures  Public  snap  Templates  Videos  
ubuntu@Ubu:~$
```

7. LI - long list



A terminal window titled 'ubuntu@Ubu: ~' with standard window controls. The user is in the directory ~/Documents. The commands and output are as follows:

```
ubuntu@Ubu:~/Documents$ cd ..
ubuntu@Ubu:~$ ls
Desktop  Documents  Downloads  Music  Pictures  Public  snap  Templates  Videos
ubuntu@Ubu:~$ ll
total 72
drwxr-x--- 15 ubuntu ubuntu 4096 Apr 16 06:25 ./
drwxr-xr-x  3 root   root   4096 Apr 16 06:24 ../
-rw-r--r--  1 ubuntu ubuntu  220 Mar 31  2024 .bash_logout
-rw-r--r--  1 ubuntu ubuntu 3771 Mar 31  2024 .bashrc
drwx----- 10 ubuntu ubuntu 4096 Apr 17 07:48 .cache/
drwx----- 11 ubuntu ubuntu 4096 Apr 16 06:48 .config/
drwxr-xr-x  2 ubuntu ubuntu 4096 Apr 16 06:25 Desktop/
drwxr-xr-x  2 ubuntu ubuntu 4096 Apr 16 06:25 Documents/
drwxr-xr-x  2 ubuntu ubuntu 4096 Apr 16 06:25 Downloads/
drwx-----  4 ubuntu ubuntu 4096 Apr 16 06:25 .local/
drwxr-xr-x  2 ubuntu ubuntu 4096 Apr 16 06:25 Music/
drwxr-xr-x  2 ubuntu ubuntu 4096 Apr 16 06:25 Pictures/
-rw-r--r--  1 ubuntu ubuntu  807 Mar 31  2024 .profile
drwxr-xr-x  2 ubuntu ubuntu 4096 Apr 16 06:25 Public/
drwx-----  3 ubuntu ubuntu 4096 Apr 16 06:25 snap/
drwx-----  2 ubuntu ubuntu 4096 Apr 16 06:25 .ssh/
drwxr-xr-x  2 ubuntu ubuntu 4096 Apr 16 06:25 Templates/
drwxr-xr-x  2 ubuntu ubuntu 4096 Apr 16 06:25 Videos/
ubuntu@Ubu:~$
```

8. Ls-ltr - - to show the latest modified list in a directory

```
-rw-r--r-- 1 ubuntu ubuntu 807 Mar 31 2024 .profile
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Public/
drwx----- 3 ubuntu ubuntu 4096 Apr 16 06:25 snap/
drwx----- 2 ubuntu ubuntu 4096 Apr 16 06:25 .ssh/
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Templates/
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Videos/
ubuntu@Ubu:~$ ls -ltr
ls: cannot access '-': No such file or directory
ls: cannot access 'ltr': No such file or directory
ubuntu@Ubu:~$ ls -ltr
total 36
drwx----- 3 ubuntu ubuntu 4096 Apr 16 06:25 snap
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Videos
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Templates
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Public
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Pictures
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Music
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Downloads
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Documents
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Desktop
ubuntu@Ubu:~$
```

9 . ls -l - to show the complete list in a directory

```
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Videos
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Templates
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Public
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Pictures
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Music
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Downloads
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Documents
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Desktop
ubuntu@Ubu:~$ ls-l
ls-l: command not found
ubuntu@Ubu:~$ ls -l
total 36
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Desktop
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Documents
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Downloads
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Music
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Pictures
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Public
drwx----- 3 ubuntu ubuntu 4096 Apr 16 06:25 snap
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Templates
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Videos
ubuntu@Ubu:~$
```

#### 10. Ls -a - - - to hide directories

```
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Pictures
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Music
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Downloads
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Documents
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Desktop
ubuntu@Ubu:~$ ls-l
ls-l: command not found
ubuntu@Ubu:~$ ls -l
total 36
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Desktop
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Documents
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Downloads
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Music
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Pictures
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Public
drwx----- 3 ubuntu ubuntu 4096 Apr 16 06:25 snap
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Templates
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Videos
ubuntu@Ubu:~$ ls -a
.          .bashrc  Desktop  .local   .profile .ssh
..         .cache   Documents Music    Public  Templates
.bash_logout .config  Downloads Pictures  snap    Videos
ubuntu@Ubu:~$
```

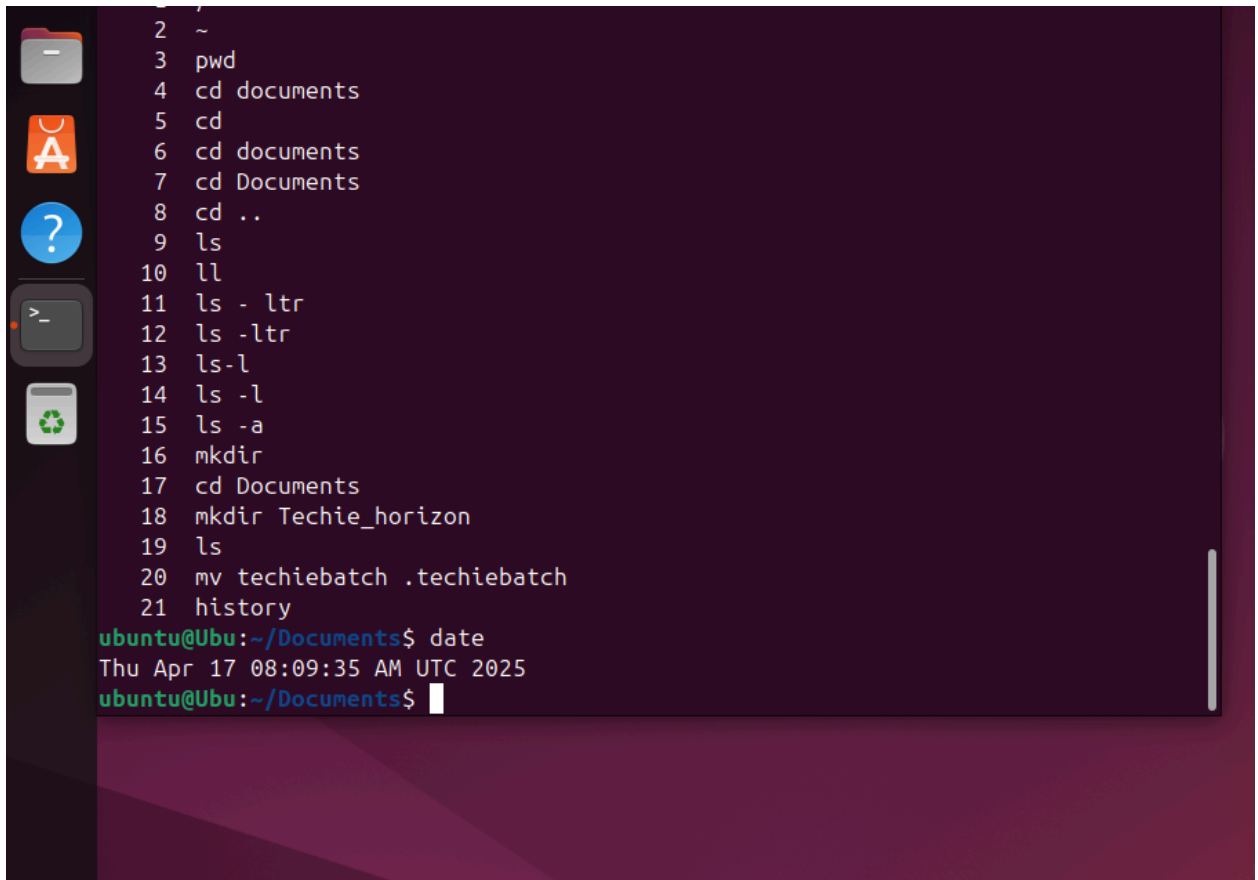
## 11. Mkdir - - to create new directory

```
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Desktop
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Documents
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Downloads
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Music
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Pictures
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Public
drwx----- 3 ubuntu ubuntu 4096 Apr 16 06:25 snap
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Templates
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 16 06:25 Videos
ubuntu@Ubu:~$ ls -a
.          .bashrc   Desktop  .local    .profile  .ssh
..         .cache    Documents Music      Public    Templates
.bash_logout .config   Downloads Pictures    snap      Videos
ubuntu@Ubu:~$ mkdir
mkdir: missing operand
Try 'mkdir --help' for more information.
ubuntu@Ubu:~$ cd Documents
ubuntu@Ubu:~/Documents$ mkdir Techie_horizon
ubuntu@Ubu:~/Documents$ ls
Techie_horizon
ubuntu@Ubu:~/Documents$ mv techiebatch .techiebatch
```

## 12. History - To show the history of command

```
mv: cannot stat 'techiebatch': No such file or directory
ubuntu@Ubu:~/Documents$ history
 1 /
 2 ~
 3 pwd
 4 cd documents
 5 cd
 6 cd documents
 7 cd Documents
 8 cd ..
 9 ls
10 ll
11 ls -ltr
12 ls -ltr
13 ls-l
14 ls -l
15 ls -a
16 mkdir
17 cd Documents
18 mkdir Techie_horizon
19 ls
20 mv techiebatch .techiebatch
21 history
ubuntu@Ubu:~/Documents$
```

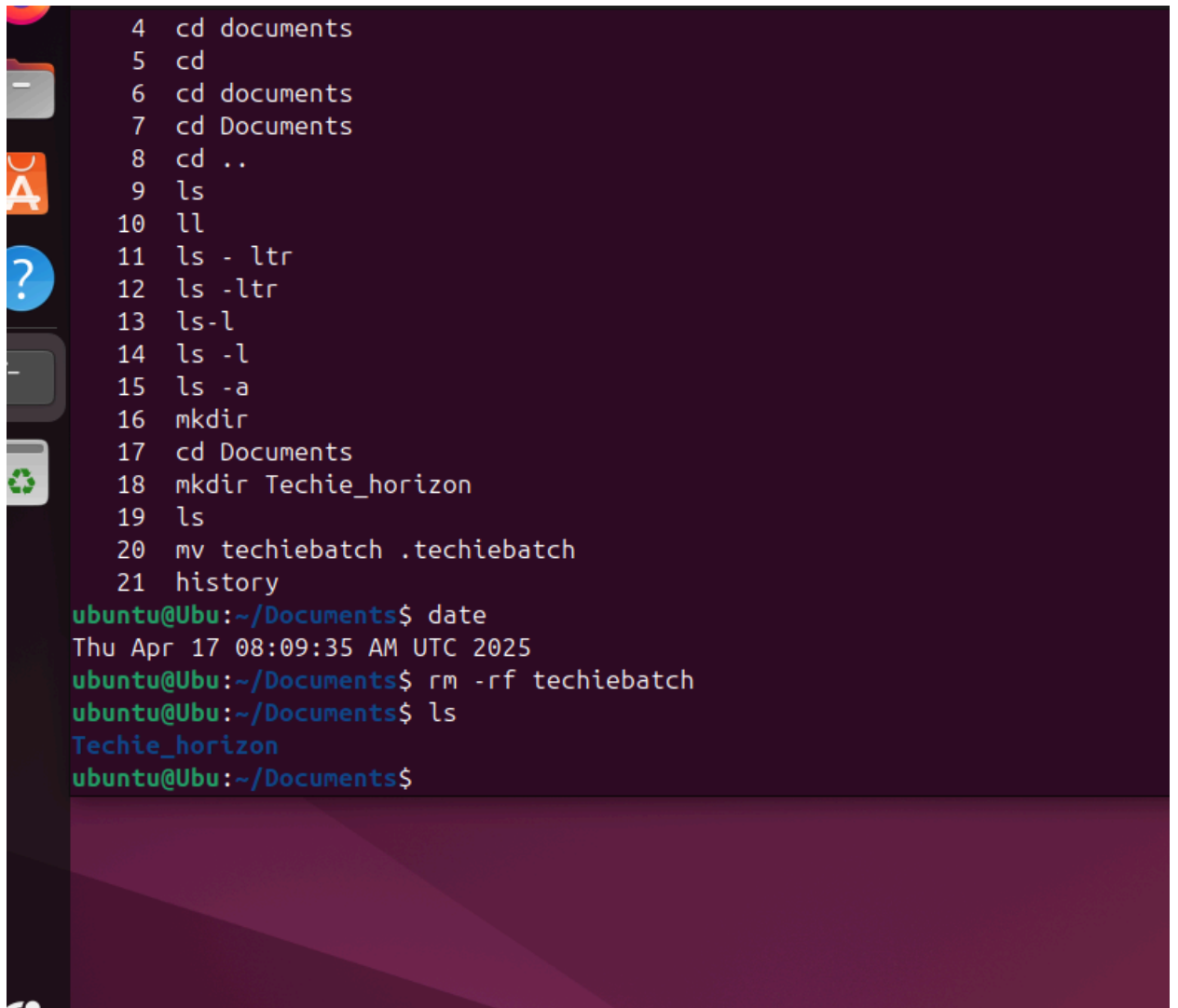
13 . date : To show the date

A terminal window with a dark purple background and a sidebar on the left containing icons for a file manager, application store, help, terminal, and trash. The terminal displays a list of 21 commands numbered 2 to 21. The commands are: ~, pwd, cd documents, cd, cd documents, cd Documents, cd .., ls, ll, ls -ltr, ls -ltr, ls-l, ls -l, ls -a, mkdir, cd Documents, mkdir Techie\_horizon, ls, mv techiebatch .techiebatch, and history. Below the list, the command 'date' is entered, and the output 'Thu Apr 17 08:09:35 AM UTC 2025' is shown. The prompt 'ubuntu@Ubu:~/Documents\$' is visible at the bottom.

```
2 ~
3 pwd
4 cd documents
5 cd
6 cd documents
7 cd Documents
8 cd ..
9 ls
10 ll
11 ls -ltr
12 ls -ltr
13 ls-l
14 ls -l
15 ls -a
16 mkdir
17 cd Documents
18 mkdir Techie_horizon
19 ls
20 mv techiebatch .techiebatch
21 history
ubuntu@Ubu:~/Documents$ date
Thu Apr 17 08:09:35 AM UTC 2025
ubuntu@Ubu:~/Documents$
```

14 . rm - rf – to remove files

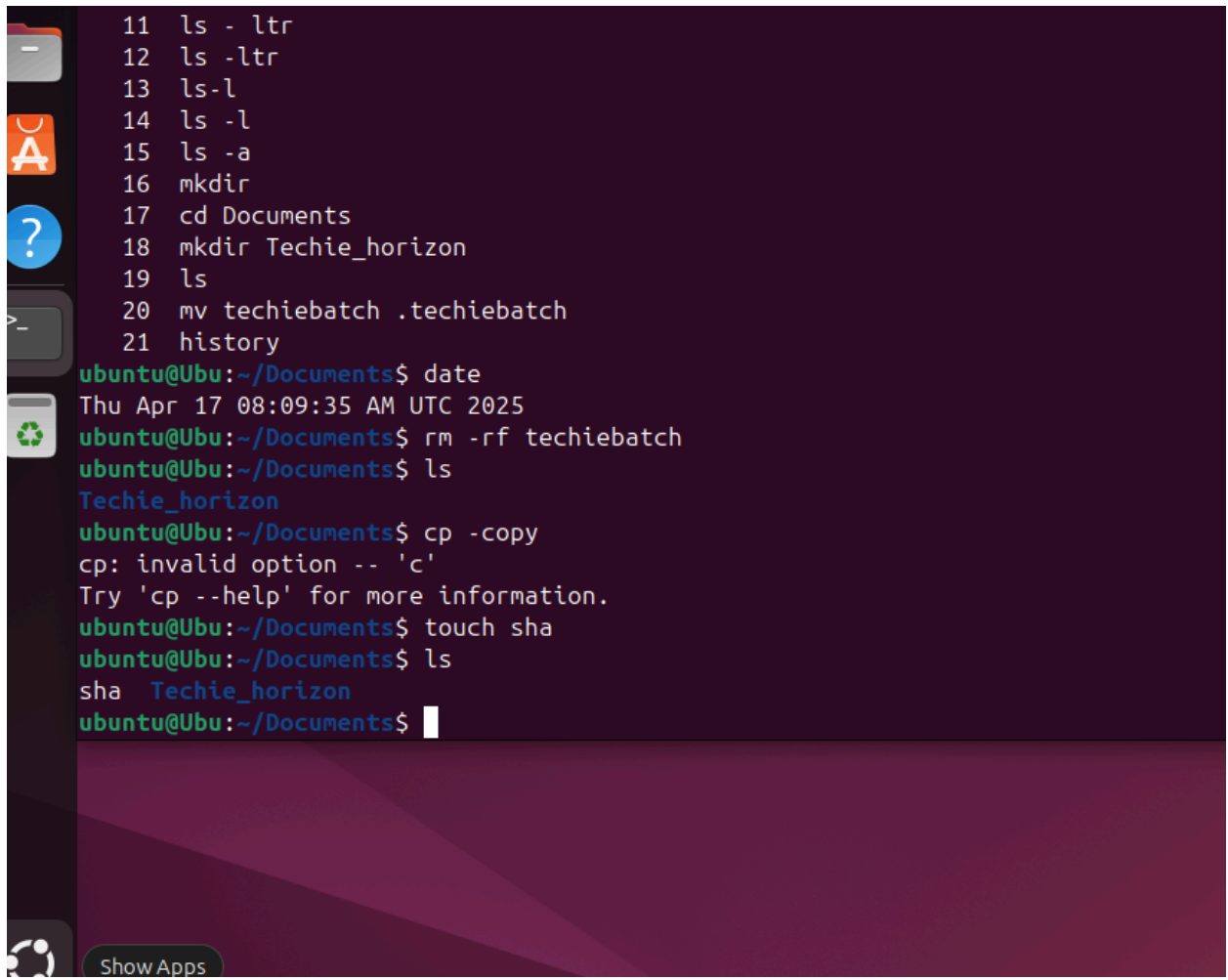




```
4 cd documents
5 cd
6 cd documents
7 cd Documents
8 cd ..
9 ls
10 ll
11 ls -ltr
12 ls -ltr
13 ls-l
14 ls -l
15 ls -a
16 mkdir
17 cd Documents
18 mkdir Techie_horizon
19 ls
20 mv techiebatch .techiebatch
21 history

ubuntu@Ubu:~/Documents$ date
Thu Apr 17 08:09:35 AM UTC 2025
ubuntu@Ubu:~/Documents$ rm -rf techiebatch
ubuntu@Ubu:~/Documents$ ls
Techie_horizon
ubuntu@Ubu:~/Documents$
```

15 . cp - copy the files/directories from one to another




A terminal window is open on an Ubuntu desktop. The desktop background is a dark purple gradient. On the left side, there is a vertical dock with several application icons: a file manager, a terminal, a web browser, and a question mark icon. The terminal window has a dark background with light-colored text. It shows a list of commands numbered 11 to 21, followed by several command-line interactions. The prompt is 'ubuntu@Ubu:~/Documents\$'. The commands executed are: 'date', 'rm -rf techiebatch', 'ls', 'cp -copy', 'touch sha', and 'ls'. The output of 'ls' shows a directory named 'Techie\_horizon'. The prompt is currently at 'ubuntu@Ubu:~/Documents\$' with a cursor.

```
11 ls -ltr
12 ls -ltr
13 ls-l
14 ls -l
15 ls -a
16 mkdir
17 cd Documents
18 mkdir Techie_horizon
19 ls
20 mv techiebatch .techiebatch
21 history

ubuntu@Ubu:~/Documents$ date
Thu Apr 17 08:09:35 AM UTC 2025
ubuntu@Ubu:~/Documents$ rm -rf techiebatch
ubuntu@Ubu:~/Documents$ ls
Techie_horizon
ubuntu@Ubu:~/Documents$ cp -copy
cp: invalid option -- 'c'
Try 'cp --help' for more information.
ubuntu@Ubu:~/Documents$ touch sha
ubuntu@Ubu:~/Documents$ ls
sha  Techie_horizon
ubuntu@Ubu:~/Documents$
```

16 . wc - word count in a file



```
ubuntu@Ubu:~/Documents$ date
Thu Apr 17 08:09:35 AM UTC 2025
ubuntu@Ubu:~/Documents$ rm -rf techiebatch
ubuntu@Ubu:~/Documents$ ls
Techie_horizon
ubuntu@Ubu:~/Documents$ cp -copy
cp: invalid option -- 'c'
Try 'cp --help' for more information.
ubuntu@Ubu:~/Documents$ touch sha
ubuntu@Ubu:~/Documents$ ls
sha  Techie_horizon
ubuntu@Ubu:~/Documents$ wc lalitha
wc: lalitha: No such file or directory
ubuntu@Ubu:~/Documents$ wc sha
0 0 0 sha
ubuntu@Ubu:~/Documents$ wc shakthi
```

17 . rm - to remove the file in a directory

```
0 0 0 sha
ubuntu@Ubu:~/Documents$ rm sha
ubuntu@Ubu:~/Documents$ ls
Techie_horizon
ubuntu@Ubu:~/Documents$
```

18. Clear – to clear the command

