

Basic Linux Commands

pwd	: Shows the present working directory
whoami	: Shows current username
date	: Shows date and time
cal	: Calendar
history	: Shows all the commands you have typed recently
clear	: Clear the entire terminal content
exit	: Exit and close the terminal
man	: guide to the commands
ls	: Lists the current directory
ls -a	: List out the hidden files
cat	: Print the content of the file
cp	: Copy a file.
rm	: Delete a file.
rm *	: Remove multiple files
mv	: Move a file.
mkdir	: Make a directory.
touch filename:	Create a file
nano filename:	Edit the content in the file
wc file name	: Shows the number of lines, words and characters
wc -l file	: Shows the number of lines
wc -c file	: Shows the number of characters
wc -w file	: Shows the number of words
cd	: Change current directory
cd ../	: Move from directory
chmod	: To change the permission
chown	: To change owner
chgrp	: To change group
echo string	: Print the same string

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Activities Terminal Feb 10 20:26
keerthi@keerthi-VirtualBox: ~
keerthi@keerthi-VirtualBox:~$ pwd
/home/keerthi
keerthi@keerthi-VirtualBox:~$ whoami
keerthi
keerthi@keerthi-VirtualBox:~$ date
Wednesday 10 February 2021 08:25:48 PM IST
keerthi@keerthi-VirtualBox:~$ cal
February 2021
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
keerthi@keerthi-VirtualBox:~$ ls
class  dir1  dir3  Downloads  fast2.txt  login  Pictures  Templates
Desktop  dir2  Documents  fast  file.txt  Music  Public  Videos
keerthi@keerthi-VirtualBox:~$ history
1 sudo apt install build-essential dkms linux-headers-$(uname-r)
2 clear
3 ls
4 mkdir dir1
5 mk dir2
6 mkdir dir2
7 mkdir dir3
8 ls
9 mkdir dir4
10 mkdir dir5
```

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Activities Terminal Feb 10 20:36
keerthi@keerthi-VirtualBox: ~/Documents

keerthi@keerthi-VirtualBox:~$ touch file1.txt
keerthi@keerthi-VirtualBox:~$ touch file2.txt
keerthi@keerthi-VirtualBox:~$ ls
class Documents fast file1.txt file.txt Pictures Templates
Desktop Downloads fast2.txt file2.txt Music Public Videos
keerthi@keerthi-VirtualBox:~$ nano file1.txt
Error reading /home/keerthi/.local/share/nano/search_history: Permission denied
keerthi@keerthi-VirtualBox:~$ cat file1.txt
What is your name?
How old are you?
keerthi@keerthi-VirtualBox:~$ wc file1.txt
  2  8 36 file1.txt
keerthi@keerthi-VirtualBox:~$ wc -l file1.txt
 2 file1.txt
keerthi@keerthi-VirtualBox:~$ wc -w file1.txt
 8 file1.txt
keerthi@keerthi-VirtualBox:~$ wc -c file1.txt
36 file1.txt
keerthi@keerthi-VirtualBox:~$ cp file1.txt file2.txt
keerthi@keerthi-VirtualBox:~$ cat file2.txt
What is your name?
How old are you?
keerthi@keerthi-VirtualBox:~$ touch file3.txt
keerthi@keerthi-VirtualBox:~$ mv file3.txt Documents/file3.txt
keerthi@keerthi-VirtualBox:~$ cd Documents
keerthi@keerthi-VirtualBox:~/Documents$ ls
add.txt class file3.txt name.txt test
keerthi@keerthi-VirtualBox:~/Documents$
```

```
Activities  Terminal ▾ Feb 10 20:47
keerthi@keerthi-VirtualBox: ~

keerthi@keerthi-VirtualBox:~$ ls
class  Documents  fast      file1.txt  file.txt  Pictures  Templates
Desktop Downloads fast2.txt  file2.txt  Music     Public    Videos

keerthi@keerthi-VirtualBox:~$ cd Documents
keerthi@keerthi-VirtualBox:~/Documents$ ls
add.txt  class  file3.txt  name.txt  test
keerthi@keerthi-VirtualBox:~/Documents$ cd test
keerthi@keerthi-VirtualBox:~/Documents/test$ ls
make.txt
keerthi@keerthi-VirtualBox:~/Documents/test$ cd ../
keerthi@keerthi-VirtualBox:~/Documents$ cd ../Music/
keerthi@keerthi-VirtualBox:~/Music$ ls
filenew.txt
keerthi@keerthi-VirtualBox:~/Music$ cd ~
keerthi@keerthi-VirtualBox:~$ ls
class  Documents  fast      file1.txt  file.txt  Pictures  Templates
Desktop Downloads fast2.txt  file2.txt  Music     Public    Videos

keerthi@keerthi-VirtualBox:~$ rm file2.txt
keerthi@keerthi-VirtualBox:~$ ls
class  Documents  fast      file1.txt  Music     Public    Videos
Desktop Downloads fast2.txt  file.txt  Pictures  Templates

keerthi@keerthi-VirtualBox:~$ mkdir dir1
keerthi@keerthi-VirtualBox:~$ mkdir dir2
keerthi@keerthi-VirtualBox:~$ ls
class  dir1  Documents  fast      file1.txt  Music     Public    Videos
Desktop dir2  Downloads fast2.txt  file.txt  Pictures  Templates

keerthi@keerthi-VirtualBox:~$
```

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Activities  Terminal ▾ Feb 10 20:57
keerthi@keerthi-VirtualBox: ~
class  dir1 Documents fast      file1.txt Music  Pictures Templates
Desktop dir2 Downloads fast2.txt file.txt newfolder Public  Videos
keerthi@keerthi-VirtualBox:~$ rm -r dir2
keerthi@keerthi-VirtualBox:~$ ls
class  dir1 Downloads fast2.txt file.txt newfolder Public  Videos
Desktop Documents fast      file1.txt Music  Pictures Templates
keerthi@keerthi-VirtualBox:~$ rm -r newfolder
keerthi@keerthi-VirtualBox:~$ ls
class  dir1 Downloads fast2.txt file.txt Pictures Templates
Desktop Documents fast      file1.txt Music  Public  Videos
keerthi@keerthi-VirtualBox:~$ cp -r dir1 college
keerthi@keerthi-VirtualBox:~$ ls
class Desktop Documents fast      file1.txt Music  Public  Videos
college dir1 Downloads fast2.txt file.txt Pictures Templates
keerthi@keerthi-VirtualBox:~$ cd college
keerthi@keerthi-VirtualBox:~/college$ ls
keerthi@keerthi-VirtualBox:~/college$ cd ~
keerthi@keerthi-VirtualBox:~$ VAR = "First variable"
VAR: command not found
keerthi@keerthi-VirtualBox:~$ V = "First Name"
V: command not found
keerthi@keerthi-VirtualBox:~$ V="First command"
keerthi@keerthi-VirtualBox:~$ echo $V
First command
keerthi@keerthi-VirtualBox:~$ echo myproject
myproject
keerthi@keerthi-VirtualBox:~$ echo my project
my project
keerthi@keerthi-VirtualBox:~$
```



```
Activities Terminal Feb 10 21:13
keerthi@keerthi-VirtualBox: ~/Documents

keerthi@keerthi-VirtualBox:~/Documents$ umask 750
keerthi@keerthi-VirtualBox:~/Documents$ mkdir mark1
keerthi@keerthi-VirtualBox:~/Documents$ ls -la
total 24
drwxr-x--- 6 keerthi keerthi 4096 Feb 10 21:12 .
drwxr-xr-x 22 keerthi keerthi 4096 Feb 10 20:54 ..
-rwxr-x--- 1 keerthi keerthi 0 Feb 10 17:24 add.txt
drwxr-x--- 2 keerthi keerthi 4096 Feb 10 17:28 class
-rwxr-x--- 1 keerthi keerthi 0 Feb 10 20:34 file3.txt
d---w-rwx 2 keerthi keerthi 4096 Feb 10 21:12 mark1
d---w-rwx 2 keerthi keerthi 4096 Feb 10 21:10 mark1.txt
-rwxr-x--- 1 keerthi keerthi 0 Feb 10 15:32 name.txt
drwxr-x--- 2 keerthi keerthi 4096 Feb 10 15:33 test
keerthi@keerthi-VirtualBox:~/Documents$ umask 222
keerthi@keerthi-VirtualBox:~/Documents$ mkdir marked
keerthi@keerthi-VirtualBox:~/Documents$ ls -la
total 28
drwxr-x--- 7 keerthi keerthi 4096 Feb 10 21:12 .
drwxr-xr-x 22 keerthi keerthi 4096 Feb 10 20:54 ..
-rwxr-x--- 1 keerthi keerthi 0 Feb 10 17:24 add.txt
drwxr-x--- 2 keerthi keerthi 4096 Feb 10 17:28 class
-rwxr-x--- 1 keerthi keerthi 0 Feb 10 20:34 file3.txt
d---w-rwx 2 keerthi keerthi 4096 Feb 10 21:12 mark1
d---w-rwx 2 keerthi keerthi 4096 Feb 10 21:10 mark1.txt
dr-xr-xr-x 2 keerthi keerthi 4096 Feb 10 21:12 marked
-rwxr-x--- 1 keerthi keerthi 0 Feb 10 15:32 name.txt
drwxr-x--- 2 keerthi keerthi 4096 Feb 10 15:33 test
keerthi@keerthi-VirtualBox:~/Documents$
```

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Activities Terminal Feb 10 21:09
keerthi@keerthi-VirtualBox: ~/Documents

drwxr-xr-x 22 keerthi keerthi 4096 Feb 10 20:54 ..
----- 1 keerthi keerthi 0 Feb 10 17:24 add.txt
d----- 2 keerthi keerthi 4096 Feb 10 17:28 class
-rw-rw-r-- 1 keerthi keerthi 0 Feb 10 20:34 file3.txt
-rw-rw-r-- 1 keerthi keerthi 0 Feb 10 15:32 name.txt
drwxrwxr-x 2 keerthi keerthi 4096 Feb 10 15:33 test
keerthi@keerthi-VirtualBox:~/Documents$ chmod 777 file3.txt
keerthi@keerthi-VirtualBox:~/Documents$ ls -la
total 16
drwxrwxr-x 4 keerthi keerthi 4096 Feb 10 20:35 .
drwxr-xr-x 22 keerthi keerthi 4096 Feb 10 20:54 ..
----- 1 keerthi keerthi 0 Feb 10 17:24 add.txt
d----- 2 keerthi keerthi 4096 Feb 10 17:28 class
-rwxrwxrwx 1 keerthi keerthi 0 Feb 10 20:34 file3.txt
-rw-rw-r-- 1 keerthi keerthi 0 Feb 10 15:32 name.txt
drwxrwxr-x 2 keerthi keerthi 4096 Feb 10 15:33 test
keerthi@keerthi-VirtualBox:~/Documents$ cd ../
keerthi@keerthi-VirtualBox:~$ chmod -R 750 Documents
keerthi@keerthi-VirtualBox:~$ cd Documents
keerthi@keerthi-VirtualBox:~/Documents$ ls -la
total 16
drwxr-x--- 4 keerthi keerthi 4096 Feb 10 20:35 .
drwxr-xr-x 22 keerthi keerthi 4096 Feb 10 20:54 ..
-rwxr-x--- 1 keerthi keerthi 0 Feb 10 17:24 add.txt
drwxr-x--- 2 keerthi keerthi 4096 Feb 10 17:28 class
-rwxr-x--- 1 keerthi keerthi 0 Feb 10 20:34 file3.txt
-rwxr-x--- 1 keerthi keerthi 0 Feb 10 15:32 name.txt
drwxr-x--- 2 keerthi keerthi 4096 Feb 10 15:33 test
keerthi@keerthi-VirtualBox:~/Documents$
```

```
Activities Terminal Feb 10 21:06
keerthi@keerthi-VirtualBox: ~/Documents

keerthi@keerthi-VirtualBox:~/Documents$ ls
add.txt class file3.txt name.txt test
keerthi@keerthi-VirtualBox:~/Documents$ cd Documents
bash: cd: Documents: No such file or directory
keerthi@keerthi-VirtualBox:~/Documents$ cd ../
keerthi@keerthi-VirtualBox:~$ ls
class Desktop Documents fast file1.txt Music Public Videos
college dir1 Downloads fast2.txt file.txt Pictures Templates
keerthi@keerthi-VirtualBox:~$ cd Documents
keerthi@keerthi-VirtualBox:~/Documents$ ls -la
total 16
drwxrwxr-x 4 keerthi keerthi 4096 Feb 10 20:35 .
drwxr-xr-x 22 keerthi keerthi 4096 Feb 10 20:54 ..
----- 1 keerthi keerthi 0 Feb 10 17:24 add.txt
d----- 2 keerthi keerthi 4096 Feb 10 17:28 class
-rw-rw-r-- 1 keerthi keerthi 0 Feb 10 20:34 file3.txt
-rw-rw-r-- 1 keerthi keerthi 0 Feb 10 15:32 name.txt
drwxrwxr-x 2 keerthi keerthi 4096 Feb 10 15:33 test
keerthi@keerthi-VirtualBox:~/Documents$ chmod 777 file3.txt
keerthi@keerthi-VirtualBox:~/Documents$ ls -la
total 16
drwxrwxr-x 4 keerthi keerthi 4096 Feb 10 20:35 .
drwxr-xr-x 22 keerthi keerthi 4096 Feb 10 20:54 ..
----- 1 keerthi keerthi 0 Feb 10 17:24 add.txt
d----- 2 keerthi keerthi 4096 Feb 10 17:28 class
-rwxrwxrwx 1 keerthi keerthi 0 Feb 10 20:34 file3.txt
-rw-rw-r-- 1 keerthi keerthi 0 Feb 10 15:32 name.txt
drwxrwxr-x 2 keerthi keerthi 4096 Feb 10 15:33 test
keerthi@keerthi-VirtualBox:~/Documents$
```


Activities Terminal Feb 10 21:02

keerthi@keerthi-VirtualBox: ~

```
drwxrwxr-x 2 keerthi keerthi 4096 Feb 10 20:37 Pictures
-rw-r--r-- 1 keerthi keerthi 807 Feb 10 14:16 .profile
drwxrwxr-x 2 keerthi keerthi 4096 Feb 10 15:30 Public
drwx----- 2 keerthi keerthi 4096 Feb 10 15:09 .ssh
-rw-r--r-- 1 keerthi keerthi 0 Feb 10 15:11 .sudo_as_admin_successful
drwxrwxr-x 2 keerthi keerthi 4096 Feb 10 15:30 Templates
drwx----- 6 keerthi keerthi 4096 Feb 10 16:05 .thunderbird
drwxrwxr-x 2 keerthi keerthi 4096 Feb 10 15:31 Videos
keerthi@keerthi-VirtualBox:~$ chmod 735 file1.txt
keerthi@keerthi-VirtualBox:~$ ls -la
total 108
drwxr-xr-x 22 keerthi keerthi 4096 Feb 10 20:54 .
drwxr-xr-x 3 root root 4096 Feb 10 14:16 ..
-rw----- 1 keerthi keerthi 2203 Feb 10 17:58 .bash_history
-rw-r--r-- 1 keerthi keerthi 220 Feb 10 14:16 .bash_logout
-rw-r--r-- 1 keerthi keerthi 3771 Feb 10 14:16 .bashrc
drwx----- 16 keerthi keerthi 4096 Feb 10 17:55 .cache
drwxrwxr-x 3 keerthi keerthi 4096 Feb 10 20:30 class
drwxrwxr-x 2 keerthi keerthi 4096 Feb 10 20:54 college
drwx----- 10 keerthi keerthi 4096 Feb 10 17:57 .config
drwxrwxr-x 2 keerthi keerthi 4096 Feb 10 15:29 Desktop
drwxrwxr-x 2 keerthi keerthi 4096 Feb 10 20:46 dir1
drwxrwxr-x 4 keerthi keerthi 4096 Feb 10 20:35 Documents
drwxrwxr-x 2 keerthi keerthi 4096 Feb 10 15:29 Downloads
d---rwxr-- 2 keerthi keerthi 4096 Feb 10 16:50 fast
d----- 2 keerthi keerthi 4096 Feb 10 16:52 fast2.txt
-rwx-wxr-x 1 keerthi keerthi 36 Feb 10 20:32 file1.txt
-r-xrw-rw- 1 keerthi keerthi 0 Feb 10 15:54 file.txt
drwx----- 3 keerthi keerthi 4096 Feb 10 15:09 .gnupg
drwxr-xr-x 3 keerthi keerthi 4096 Feb 10 15:05 .local
```

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Activities Terminal Feb 10 21:01
keerthi@keerthi-VirtualBox: ~
drwx----- 6 keerthi keerthi 4096 Feb 10 16:05 .thunderbird
drwxrwxr-x 2 keerthi keerthi 4096 Feb 10 15:31 Videos
keerthi@keerthi-VirtualBox:~$ chmod u+x file1.txt
keerthi@keerthi-VirtualBox:~$ ls -la
total 108
drwxr-xr-x 22 keerthi keerthi 4096 Feb 10 20:54 .
drwxr-xr-x 3 root root 4096 Feb 10 14:16 ..
-rw----- 1 keerthi keerthi 2203 Feb 10 17:58 .bash_history
-rw-r--r-- 1 keerthi keerthi 220 Feb 10 14:16 .bash_logout
-rw-r--r-- 1 keerthi keerthi 3771 Feb 10 14:16 .bashrc
drwx----- 16 keerthi keerthi 4096 Feb 10 17:55 .cache
drwxrwxr-x 3 keerthi keerthi 4096 Feb 10 20:30 class
drwxrwxr-x 2 keerthi keerthi 4096 Feb 10 20:54 college
drwx----- 10 keerthi keerthi 4096 Feb 10 17:57 .config
drwxrwxr-x 2 keerthi keerthi 4096 Feb 10 15:29 Desktop
drwxrwxr-x 2 keerthi keerthi 4096 Feb 10 20:46 dir1
drwxrwxr-x 4 keerthi keerthi 4096 Feb 10 20:35 Documents
drwxrwxr-x 2 keerthi keerthi 4096 Feb 10 15:29 Downloads
d---rwxr-- 2 keerthi keerthi 4096 Feb 10 16:50 fast
d----- 2 keerthi keerthi 4096 Feb 10 16:52 fast2.txt
-rwxrwr-r-- 1 keerthi keerthi 36 Feb 10 20:32 file1.txt
-r-xrw-rw- 1 keerthi keerthi 0 Feb 10 15:54 file.txt
drwx----- 3 keerthi keerthi 4096 Feb 10 15:09 .gnupg
drwxr-xr-x 3 keerthi keerthi 4096 Feb 10 15:05 .local
drwx----- 5 keerthi keerthi 4096 Feb 10 16:05 .mozilla
drwxrwxr-x 2 keerthi keerthi 4096 Feb 10 20:44 Music
drwxrwxr-x 2 keerthi keerthi 4096 Feb 10 20:57 Pictures
-rw-r--r-- 1 keerthi keerthi 807 Feb 10 14:16 .profile
drwxrwxr-x 2 keerthi keerthi 4096 Feb 10 15:30 Public
```

```
Activities  Terminal ▾ Feb 10 21:15
keerthi@keerthi-VirtualBox: ~/Music

keerthi@keerthi-VirtualBox:~/Documents$ ls
add.txt class file3.txt mark1 mark1.txt marked name.txt test
keerthi@keerthi-VirtualBox:~/Documents$ cd ../
keerthi@keerthi-VirtualBox:~$ cd Music
keerthi@keerthi-VirtualBox:~/Music$ ls -la
total 8
drwxrwxr-x  2 keerthi keerthi 4096 Feb 10 20:44 .
drwxr-xr-x 22 keerthi keerthi 4096 Feb 10 20:54 ..
-rw-rw-r--  1 keerthi keerthi   0 Feb 10 20:44 filenew.txt
keerthi@keerthi-VirtualBox:~/Music$ chmod u+s filenew.txt
keerthi@keerthi-VirtualBox:~/Music$ ls -la
total 8
drwxrwxr-x  2 keerthi keerthi 4096 Feb 10 20:44 .
drwxr-xr-x 22 keerthi keerthi 4096 Feb 10 20:54 ..
-rwSrW-r--  1 keerthi keerthi   0 Feb 10 20:44 filenew.txt
keerthi@keerthi-VirtualBox:~/Music$ chmod g+s filenew.txt
keerthi@keerthi-VirtualBox:~/Music$ ls -la
total 8
drwxrwxr-x  2 keerthi keerthi 4096 Feb 10 20:44 .
drwxr-xr-x 22 keerthi keerthi 4096 Feb 10 20:54 ..
-rwSrW-r--  1 keerthi keerthi   0 Feb 10 20:44 filenew.txt
keerthi@keerthi-VirtualBox:~/Music$ chmod g-s filenew.txt
keerthi@keerthi-VirtualBox:~/Music$ ls -la
total 8
drwxrwxr-x  2 keerthi keerthi 4096 Feb 10 20:44 .
drwxr-xr-x 22 keerthi keerthi 4096 Feb 10 20:54 ..
-rwSrW-r--  1 keerthi keerthi   0 Feb 10 20:44 filenew.txt
keerthi@keerthi-VirtualBox:~/Music$
```