#exit [To exit from terminal]
\$tput clear [to clear the screen]
\$cal 7(month) 2022(year)
\$who
\$ps

Files and directories stored in the current directory root@ubuntu:~# Is

Which are files and which are directories. For ordinary files, no character is appended. For special files, a character such as !, @, or # is appended to the filename root@ubuntu:~# Is -F

root@ubuntu:~# ls -l jisu@jisu-Vostro-3250:~\$ ls -A dir1 dir11 dir3 dir4

ls -i shows the inode number

Is -Id dir1 dir 2[-d for directory attributes]

\$ls

\$Is chap*

\$ls -I chap*

Ls chap?

Ls chap??

Ls .???* match all hidden files with atleast 3 characters after dot

Ls emp*lst

Is -a -I -t can be combined into Is -alt

Is -lat chap01 chap02

jisu@jisu-Vostro-3250:~\$

The first character signifies the type of the file

d for directory

I for symbolic link

- for normal file

Irwxrwxrwx 1 root root 19 May 16 2018 - -> /etc/cron.d/sysstat

drwxr-xr-x 5 root root 4096 Nov 4 2021 Desktop

drwxr-xr-x 2 root root 4096 Nov 4 2021 Documents

drwxr-xr-x 2 root root 4096 Jun 14 2021 Downloads

-rw-r--r-- 1 root root 0 Jun 24 2020 file2

drwxr-xr-x 3 root root 4096 May 1 2018 flaskproj

-rw-r--r-- 1 root root 12 Apr 28 2018 index.html

-rw-r--r-- 1 root root 178 Sep 26 2019 meterkm.c

drwxr-xr-x 2 root root 4096 May 27 2021 Music

drwxrwxrwx 3 root root 4096 May 1 2018 newproj

drwxr-xr-x 6 root root 4096 Oct 27 2019 ns-allinone-3.27 -rw-r--r-- 1 root root 1601 Oct 29 2019 Output3.txt drwxr-xr-x 2 root root 4096 Jun 14 2021 Pictures drwxr-xr-x 2 root root 4096 Jul 2 2017 Public -rwxrwxrwx 1 root root 464 May 16 2018 sar1.txt -rw-r--r-- 1 root root 1042 May 17 2018 sarData16.txt -rw-r--r-- 1 root root 20441 May 16 2018 sar.data.txt -rw-r--r-- 1 root root 20441 May 16 2018 sar.wnginx.txt -rw-r--r-- 1 root root 12 Jun 24 2020 sourceF.txt drwxr-xr-x 2 root root 4096 Jul 2 2017 Templates drwxr-xr-x 3 root root 4096 May 1 2018 venvs drwxr-xr-x 2 root root 4096 Jul 2 2017 Videos -rw-r--r-- 1 root root 4702 May 16 2018 www5430.txt root@ubuntu:~# Permission: User (_ _ _) Group (_ _ _) other /all (_ _ _) Read(r) 4 Write(w) 2 execute(x) (1) rwx: 4+2+1=7 rw: 4+2=6 wx:(2+1)=3rx:(4+1)=5Create a file and change its permission history > myfile1.txt root@ubuntu:~# ls -l myfile1.txt -rw-r--r-- 1 root root 30001 Aug 2 21:18 myfile1.txt root@ubuntu:~# chmod 777 myfile1.txt root@ubuntu:~# ls -l myfile1.txt -rwxrwxrwx 1 root root 30001 Aug 2 21:18 myfile1.txt root@ubuntu:~# root@ubuntu:~# chmod u-r myfile1.txt

root@ubuntu:~#
root@ubuntu:~# chmod ug+r myfile1.txt
root@ubuntu:~# ls -l myfile1.txt
-rwxrwxrwx 1 root root 30001 Aug 2 21:18 myfile1.txt
root@ubuntu:~#

--wxrwxrwx 1 root root 30001 Aug 2 21:18 myfile1.txt

root@ubuntu:~# ls -l myfile1.txt

```
/////Change permission///
chmod a+x file1.txt
a means ugo
chmod -R a+x dir1 [all documents under directory must be given permission]
chmod -R a+x. [on all hidden files]
chmod -R a+x * [not on all hidden files]
chown tuhin file1 [login as root]
/////////See the contents of a file
Just 10 lines from begining
root@ubuntu:~# head myfile1.txt www5430.txt
==> myfile1.txt <==
1000 Is
1001 ./waf --run third --visualize
1002 ./waf --run wifi-simple-adhoc10 --visualize
1003 ./waf --run third --command-template="nCsma 2"
1004 ./waf --run third --command-template="%s ncsma 2 "
1005 $ ./waf --run '<ns3-program> --arg1=value1 --arg2=value2 ...'
1006 $ ./waf --run 'third --ncsma=2 --nwifi=1'
1007 ./waf --run 'third --ncsma=2 --nwifi=1'
1008 ./waf --run 'third --nCsma=3 --nWifi=1'
1009 $ ./waf --run test-runner --command-template="%s --help"
==> www5430.txt <==
Print Along with line number
cat -n hosts
Bc
200+300
Ctrl+d
/////////////About Your OS
uname -a
```


Word count root@ubuntu:~# wc myfile1.txt 1000 3209 30001 myfile1.txt lines words char

root@ubuntu:~# wc myfile1.txt
1000 3209 30001 myfile1.txt
root@ubuntu:~# wc -I myfile1.txt
1000 myfile1.txt
root@ubuntu:~# wc -m myfile1.txt
30001 myfile1.txt
root@ubuntu:~# wc -w myfile1.txt
3209 myfile1.txt
root@ubuntu:~# wc -w myfile1.txt
root@ubuntu:~#

wc note1.txt

wc note1.txt; ls -l > file1.txt

what is cp [or we can use man cp]

////////About Files

Create Directory

root@ubuntu:~# mkdir mydir1
root@ubuntu:~# cd mydir1/
root@ubuntu:~/mydir1# echo "Today is Saturday" > file1
root@ubuntu:~/mydir1# ls -l
total 4
-rw-r--r-- 1 root root 18 Aug 2 21:31 file1
root@ubuntu:~/mydir1#
root@ubuntu:~/mydir1# touch file2
root@ubuntu:~/mydir1# cat file1
Today is Saturday
root@ubuntu:~/mydir1# cat file2
root@ubuntu:~/mydir1# cat file2
root@ubuntu:~/mydir1#

root@ubuntu:~/mydir1# cp file1 file2 root@ubuntu:~/mydir1# cat file2 Today is Saturday root@ubuntu:~/mydir1#

//////Copying inside a directory/////
root@ubuntu:~/mydir1# mkdir mydir2
root@ubuntu:~/mydir1# cp file1 mydir2/

```
root@ubuntu:~/mydir1# cd mydir2/
root@ubuntu:~/mydir1/mydir2# ls
file1
root@ubuntu:~/mydir1/mydir2# cat file1
Today is Saturday
root@ubuntu:~/mydir1/mydir2#
root@ubuntu:~/mydir1/mydir2# cd ..
root@ubuntu:~/mydir1#
root@ubuntu:~/mydir1/mydir2# cd ..
root@ubuntu:~/mydir1# cd /
root@ubuntu:/#
mkdir -p /tmp/ch04/test1 multilevel directories creation
//////Prompt/////
root@ubuntu:~# cp -i file2 my
mydir1/
          myfile1.txt
root@ubuntu:~# cp -i file2 mydir1/
cp: overwrite 'mydir1/file2'? y
root@ubuntu:~#
cp -r dir1 dir2
//////Rename with mv/////////
root@ubuntu:~# cd mydir1/
root@ubuntu:~/mydir1# ls
file1 file2 mydir2
root@ubuntu:~/mydir1# mv file1 file new1
root@ubuntu:~/mydir1# Is
file2 file_new1 mydir2
root@ubuntu:~/mydir1#
root@ubuntu:~/mydir1#
Move directory not rename
jisu@jisu-Vostro-3250:~$ mkdir dir3
jisu@jisu-Vostro-3250:~$ cp -r dir3 dir1
jisu@jisu-Vostro-3250:~$ cd dir1
jisu@jisu-Vostro-3250:~/dir1$ Is
dir11 dir3
jisu@jisu-Vostro-3250:~/dir1$ cd ...
jisu@jisu-Vostro-3250:~$ mkdir dir4
jisu@jisu-Vostro-3250:~$ mv dir3 dir4 dir1
jisu@jisu-Vostro-3250:~$ Is
```

```
////////Delete Directory
rm chap01 chap02
rm "chap*" removes only chap*
rm chap* removes chap0 1 2...
jisu@jisu-Vostro-3250:~$ mkdir dir7
jisu@jisu-Vostro-3250:~$ rm -r dir7
jisu@jisu-Vostro-3250:~$ mkdir dir4
jisu@jisu-Vostro-3250:~$ rmdir dir4
jisu@jisu-Vostro-3250:~/Desktop/folder1$ mkdir folder2
jisu@jisu-Vostro-3250:~/Desktop/folder1$ cd folder2/
jisu@jisu-Vostro-3250:~/Desktop/folder1/folder2$ cd ...
jisu@jisu-Vostro-3250:~/Desktop/folder1$ cd ..
jisu@jisu-Vostro-3250:~/Desktop$ cd folder dest
bash: cd: folder_dest: No such file or directory
jisu@jisu-Vostro-3250:~/Desktop$ mkdir folder_3
jisu@jisu-Vostro-3250:~/Desktop$ touch folder 3/file4.txt
jisu@jisu-Vostro-3250:~/Desktop$ echo "Hello world" >> folder
folder1/ folder 3/
jisu@jisu-Vostro-3250:~/Desktop$ echo "Hello world" >> folder 3/file4.txt
jisu@jisu-Vostro-3250:~/Desktop$ mv folder_3/file4.txt folder
folder1/ folder 3/
jisu@jisu-Vostro-3250:~/Desktop$ mv folder 3/file4.txt folder1/
jisu@jisu-Vostro-3250:~/Desktop$
```

```
rmdir dir1
rm -R dir1
cd dir1
pwd
absolute pathname: starts with /home/Desktop/dir1
relative pathname just the current directory dir
Executable file /bin/date
cd .. goes to parent
cd ../.. goes to grandparent
cd / goes to root

cp ../dir1/file1 . [copy the file1 to current dir .]
```

///////////vi things

:x

:w

:wq

:q

:q! don't save

x deletes text

dd deletes line

6dd 5lines below+Current line