File Name : basic\_linux\_commands.pdf

Name : Dipanshu Ranga (@dip-beryl)

Organization : Beryl Systems Pvt. Ltd.

# Linux Commands (Basic)

**1. pwd :** to know the current working directory ['print working directory'].

```
beryl@beryl-ThinkPad-L412:~/practice$ pwd
/home/beryl/practice
```

- **2. cd :** to change the working directory ['change directory']
  - **2.1 cd:** when used without any options change the directory to root directory

```
beryl@beryl-ThinkPad-L412:~/practice$ cd
beryl@beryl-ThinkPad-L412:~$ pwd
/home/beryl
```

**2.2 cd direcory\_name : -** changes the directory to directory mentioned inplace of 'directory\_name'

```
beryl@beryl-ThinkPad-L412:~$ cd practice
beryl@beryl-ThinkPad-L412:~/practice$
```

**2.3 cd ..:-** [..] double dots are used to refer the parent directory of current directory

```
beryl@beryl-ThinkPad-L412:~/practice$ cd .. beryl@beryl-ThinkPad-L412:~$
```

**3. ls:** to list out the current directory items

```
beryl@beryl-ThinkPad-L412:~$ ls

Desktop 'Git and Github' Pictures snap training

Documents Music practice Templates Videos

Downloads output.txt Public Tishu
```

#### ls -[options]:

3.1 -a, --all: - to also show hidden files

```
beryl@beryl-ThinkPad-L412:~$ ls -a
                 Documents
                                    .mozilla
                 Downloads
                                   Music
.bash_history
                                                 .sudo_as_admin_successful
                 .exrc
                                    output.txt
.bash_logout
                                    Pictures
                                                 Templates
                'Git and Github'
                                                 .thunderbird
.bashrc
                                    .pki
                 .gitconfig
                                                 Tishu
                                    .profile
                                                 training
 .config
                 .gnupg
Desktop
                 .local
                                    Public
                                                 Videos
```

**3.2** -A, --almost-all: - works exactly like [-a] but do not show [.] and [..]

```
beryl@beryl-ThinkPad-L412:~/practice$ ls -A
count.txt file.txt .git .hello.py new.txt song song.txt tasks.txt
```

**3.3** --author: - gives author of file when used with [-l]

```
permissions hardlinks owner group author block size modify date file name beryl@beryl-ThinkPad-L412:~/practice$ ls -l --author total 24
-rw-rw-r-- 1 beryl beryl beryl 113 Jul 11 17:38 count.txt
-rw-rw-r-- 1 beryl beryl beryl 360 Jul 11 15:24 file.txt
-rw-rw-r-- 1 beryl beryl beryl 3 Jul 11 16:30 new.txt
drwxrwxr-x 2 beryl beryl beryl 4096 Jul 11 17:03 song
-rw-rw-r-- 1 beryl beryl beryl 3 Jul 11 16:31 song.txt
-rw-rw-r-- 1 beryl beryl beryl 32 Jul 12 10:18 tasks.txt
```

**3.4 -C:-** list enteries by column

```
beryl@beryl-ThinkPad-L412:~/practice$ ls -C
count.txt file.txt new.txt song song.txt tasks.txt
```

**3.5** --color=[parameter]: - colorize the output.

Parameters – always (default), never and auto

```
beryl@beryl-ThinkPad-L412:~/practice$ ls --color
count.txt file.txt new.txt song tasks.txt
beryl@beryl-ThinkPad-L412:~/practice$ ls --color=auto
count.txt file.txt new.txt song tasks.txt
beryl@beryl-ThinkPad-L412:~/practice$ ls --color=never
count.txt file.txt new.txt song tasks.txt
```

**3.6 -d, --directory : -** List directory entries instead of contents.

```
beryl@beryl-ThinkPad-L412:~/practice$ ls -d
.
```

3.6.1 ls -d \*/:- to print only directory names

```
beryl@beryl-ThinkPad-L412:~/practice$ ls -d */
folder/ song/
```

**3.7 -f**: Do not sort, enable -aU, and disablels –color. Prints the same ordr as file system with hidden files.

```
beryl@beryl-ThinkPad-L412:~/practice$ ls -f
.hello.py new.txt tasks.txt folder file.txt count.txt .. . song .git
```

3.8 -F, --classify: Append indicator (one of \*/=>@|) to entries.

```
beryl@beryl-ThinkPad-L412:~/practice$ ls -F
count.txt file.txt folder/ new.txt song/ tasks.txt
```

**3.9 --format=** *word* **: -** formats the output according. across -x, commas -m, horizontal -x, long -l, single-column -1, verbose -l, vertical -C

```
beryl@beryl-ThinkPad-L412:~/practice$ ls --format=commas
count.txt, file.txt, folder, new.txt, song, tasks.txt
beryl@beryl-ThinkPad-L412:~/practice$ ls -m
count.txt, file.txt, folder, new.txt, song, tasks.txt
```

**3.10** --group-directories-first :- shows directories before files

```
beryl@beryl-ThinkPad-L412:~/practice$ ls --group-directories-first folder song count.txt file.txt new.txt tasks.txt
```

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

```
beryl@beryl-ThinkPad-L412:~/practice$ ls -l -h
total 24K
-rw-rw-r-- 1 beryl beryl 113 Jul 11 17:38 count.txt
-rw-rw-r-- 1 beryl beryl 360 Jul 11 15:24 file.txt
drwxrwxr-x 2 beryl beryl 4.0K Jul 12 13:04 folder
-rw-rw-r-- 1 beryl beryl 3 Jul 11 16:30 new.txt
drwxrwxr-x 2 beryl beryl 4.0K Jul 11 17:03 song
-rw-rw-r-- 1 beryl beryl 32 Jul 12 10:18 tasks.txt
```

**3.12** -i, -inode: - print the index number of each file

```
beryl@beryl-ThinkPad-L412:~/practice$ ls -i
12868204 count.txt 13109283 folder 13108211 song
12852080 file.txt 12860461 new.txt 12853286 tasks.txt
```

**3.13** -n, --numeric-uid-gid :- Like -l, but list numeric user and group IDs

```
beryl@beryl-ThinkPad-L412:~/practice$ ls -n
total 24
-rw-rw-r-- 1 1000 1000 113 Jul 11 17:38 count.txt
-rw-rw-r-- 1 1000 1000 360 Jul 11 15:24 file.txt
drwxrwxr-x 2 1000 1000 4096 Jul 12 13:04 folder
-rw-rw-r-- 1 1000 1000 3 Jul 11 16:30 new.txt
drwxrwxr-x 2 1000 1000 4096 Jul 11 17:03 song
-rw-rw-r-- 1 1000 1000 32 Jul 12 10:18 tasks.txt
```

**3.14** -p:- apped "/" indicator to directories

```
beryl@beryl-ThinkPad-L412:~/practice$ ls -p

count.txt file.txt folder/ new.txt song/ tasks.txt
```

3.15 -Q, --quote-name: - enclose entry names in double quotes

```
beryl@beryl-ThinkPad-L412:~/practice$ ls -Q
"count.txt" "file.txt" "folder" "new.txt" "song" "tasks.txt"
```

**3.16** -R, --recursie: - prints subdirecteries recursively

```
beryl@beryl-ThinkPad-L412:~/practice$ ls -R
.:
count.txt file.txt folder new.txt song tasks.txt
./folder:
./song:
jj.txt
```

**3.17 --sort**=*word*: **-** Sort by *word* instead of name: none (-U), extension (-X), size (-S), time (-t), version (-v).

```
beryl@beryl-ThinkPad-L412:~/practice$ ls --sort=size
folder song file.txt count.txt tasks.txt new.txt
beryl@beryl-ThinkPad-L412:~/practice$ ls -S
folder song file.txt count.txt tasks.txt new.txt
```

**3.18 -r, --reverse : -** reverse the order when sorting

```
beryl@beryl-ThinkPad-L412:~/practice$ ls -S -r
new.txt tasks.txt count.txt file.txt song folder
```

**3.19** -1: - prints eqach filein a new line

```
beryl@beryl-ThinkPad-L412:~/practice$ ls -1
count.txt
file.txt
folder
new.txt
song
tasks.txt
```

**4. echo:** the echo command prints text to standard output

**4.1 echo " " > :** to create a text file in current directory **'>' - redirection** is used to transfer output to a command or a file

```
beryl@beryl-ThinkPad-L412:~/practice$ echo "My name is Hero" > hero.txt
beryl@beryl-ThinkPad-L412:~/practice$ ls
count.txt file.txt folder hero.txt new.txt song tasks.txt
```

- **5. cat:** to join two or more text files or to view the file contents ('catenate')
  - **5.1 cat file\_name : -** view content of file

```
beryl@beryl-ThinkPad-L412:~/practice$ cat hero.txt
My name is Hero
```

- **5.2 cat file1 > file2 : -** tranfers data from one file to other file (file2's data will be deleted as '>' overwrites)
- 5.3 cat file1 >> file2: tranfers data from one file to other file

  (file1's is added with file2's data in file2 as ">>" is used)

**6. <<,<, >, >> Redirection : -** used to redirect the input or ouputs from commands.

- **6.1:** Above in echo and cat we can see the working of redirection (>).
- **6.2 : -** We can also use the redirection to directly create files with any extension or no extension

```
beryl@beryl-ThinkPad-L412:~/practice/kite$ ls
file.txt
beryl@beryl-ThinkPad-L412:~/practice/kite$ > note.txt
beryl@beryl-ThinkPad-L412:~/practice/kite$ > empty
beryl@beryl-ThinkPad-L412:~/practice/kite$ > code.py
beryl@beryl-ThinkPad-L412:~/practice/kite$ ls
code.py empty file.txt note.txt
```

7. mkdir: to create a folder in current working directory ['make directory']

7.1 mkdir dir\_name: -

```
beryl@beryl-ThinkPad-L412:~/practice$ ls
count.txt file.txt folder hero.txt new.txt song tasks.txt
beryl@beryl-ThinkPad-L412:~/practice$ mkdir kite
beryl@beryl-ThinkPad-L412:~/practice$ ls
count.txt file.txt folder hero.txt kite new.txt song tasks.txt
```

7.2 mkdir -p multipe parent dir: - create a multilevel parent empty directory

```
beryl@beryl-ThinkPad-L412:~/practice$ ls
count.txt file.txt folder hero.txt kite new.txt song tasks.txt
beryl@beryl-ThinkPad-L412:~/practice$ mkdir -p good/better/best
beryl@beryl-ThinkPad-L412:~/practice$ ls
count.txt file.txt folder good hero.txt kite new.txt song tasks.txt
beryl@beryl-ThinkPad-L412:~/practice$ ls good/
better
beryl@beryl-ThinkPad-L412:~/practice$ ls good/better
best
```

.....

**8. rm :** to delete any file [ 'remove' ] **[options] :** 

**8.1 rm file\_name : -** delete any file except folders

```
beryl@beryl-ThinkPad-L412:~/practice$ ls
count.txt file.txt folder good hero.txt kite new.txt song tasks.txt
beryl@beryl-ThinkPad-L412:~/practice$ rm new.txt
beryl@beryl-ThinkPad-L412:~/practice$ ls
count.txt file.txt folder good hero.txt kite song tasks.txt
```

**8.2** -d, --dir: - delete empty directories Syntax: - rm -d dir\_name

```
beryl@beryl-ThinkPad-L412:~/practice$ ls
count.txt file.txt folder good hero.txt kite song tasks.txt
beryl@beryl-ThinkPad-L412:~/practice$
beryl@beryl-ThinkPad-L412:~/practice$ rm folder
rm: cannot remove 'folder': Is a directory
beryl@beryl-ThinkPad-L412:~/practice$
beryl@beryl-ThinkPad-L412:~/practice$ rm -d folder
beryl@beryl-ThinkPad-L412:~/practice$
beryl@beryl-ThinkPad-L412:~/practice$ ls
count.txt file.txt good hero.txt kite song tasks.txt
beryl@beryl-ThinkPad-L412:~/practice$
```

**8.3** -r, -R, --recursive : - deletes directories and subfiles and subdiretories Syntax : rm -r dir\_name

```
beryl@beryl-ThinkPad-L412:~/practice$ ls
count.txt file.txt good hero.txt kite song tasks.txt
beryl@beryl-ThinkPad-L412:~/practice$ ls good/
better
beryl@beryl-ThinkPad-L412:~/practice$ rm -d good
rm: cannot remove 'good': Directory not empty
beryl@beryl-ThinkPad-L412:~/practice$
beryl@beryl-ThinkPad-L412:~/practice$ rm -r good/
beryl@beryl-ThinkPad-L412:~/practice$ ls
count.txt file.txt hero.txt kite song tasks.txt
beryl@beryl-ThinkPad-L412:~/practice$
```

**8.4 -f, --force: -** ignore non existing files & never prompt before removing **Synatx:** *rm -f file1 file2 .... fileN* 

9. cp: to copy files or folders ['copy']

[options]:

9.1 Syntax : cp path1 path2

```
beryl@beryl-ThinkPad-L412:~/practice$ ls
count.txt file.txt good hero.txt kite song tasks.txt
beryl@beryl-ThinkPad-L412:~/practice$ ls good
better
beryl@beryl-ThinkPad-L412:~/practice$ cp hero.txt good/
beryl@beryl-ThinkPad-L412:~/practice$ ls good
better hero.txt
beryl@beryl-ThinkPad-L412:~/practice$
```

**9.2:** - creating a copy of file in same folder

```
beryl@beryl-ThinkPad-L412:~/practice$ ls
count.txt file.txt good hero.txt kite song tasks.txt
beryl@beryl-ThinkPad-L412:~/practice$ cat hero.txt
My name is Hero
beryl@beryl-ThinkPad-L412:~/practice$ cp hero.txt myname.txt
beryl@beryl-ThinkPad-L412:~/practice$ cat myname.txt
My name is Hero
```

#### 9.3 -r, -R, --recursive: - to copy directories and subdirectories recursively

```
beryl@beryl-ThinkPad-L412:~/practice$ ls
count.txt file.txt good hero.txt kite myname.txt song tasks.txt
beryl@beryl-ThinkPad-L412:~/practice$ ls good/
better hero.txt
beryl@beryl-ThinkPad-L412:~/practice$ cp good bad
cp: -r not specified; omitting directory 'good'
beryl@beryl-ThinkPad-L412:~/practice$
beryl@beryl-ThinkPad-L412:~/practice$ cp -r good bad
beryl@beryl-ThinkPad-L412:~/practice$
beryl@beryl-ThinkPad-L412:~/practice$
beryl@beryl-ThinkPad-L412:~/practice$
beryl@beryl-ThinkPad-L412:~/practice$
beryl@beryl-ThinkPad-L412:~/practice$
```

**10. mv :** to move or rename files or folders [ 'move' ]

#### [options]:

10.1 moving a file

Syntax: mv path1 path2

# 10.2 moving a file back to current directory, we can use [.] for current dir Syntax: mv path.

```
beryl@beryl-ThinkPad-L412:~/practice$ ls kite
file.txt
beryl@beryl-ThinkPad-L412:~/practice$ mv kite/file.txt .
beryl@beryl-ThinkPad-L412:~/practice$ ls
bad file.txt hello.txt kite song
count.txt good hero.txt myname.txt tasks.txt
```

#### 10.3 renaming file with my

to rename a file with mv arg1 = original name arg2 = new name (do not change tha path)

#### Syntax: mv name1(pah1) name2(path1)

```
beryl@beryl-ThinkPad-L412:~/practice$ ls
bad file.txt hello.txt kite song
count.txt good hero.txt myname.txt tasks.txt
beryl@beryl-ThinkPad-L412:~/practice$ mv hero.txt zero.txt
beryl@beryl-ThinkPad-L412:~/practice$ ls
bad file.txt hello.txt myname.txt tasks.txt
count.txt good kite song zero.txt
beryl@beryl-ThinkPad-L412:~/practice$
```

**11. grep :** the grep command processes text line by line, and prints any lines which match a specified pattern.

"global regular expression print,"

- 11.1 Syntax: grep [search\_term] [file\_name]
- **11.2** -i: insensitive search

```
beryl@beryl-ThinkPad-L412:~/practice$ cat home.txt
Hi my name is Dipanshu.
I live in faridabad.
Faridabad is an urban area.
My home is in the NIT area.
beryl@beryl-ThinkPad-L412:~/practice$ grep faridabad home.txt
I live in faridabad.
beryl@beryl-ThinkPad-L412:~/practice$ grep -i faridabad home.txt
I live in faridabad.
Faridabad is an urban area.
beryl@beryl-ThinkPad-L412:~/practice$
```

**12. locate:** the locate command finds files by name.

#### [options]:

- 12.1 locate (file/folder name):
- **12.2** -c, --count: count the results
- **12.3** -i, --ignore-case: insensitive search

```
beryl@beryl-ThinkPad-L412:~$ locate better
/home/beryl/practice/bad/better
/home/beryl/practice/good/better
/home/beryl/practice/good/better
/home/beryl/practice/good/better/best
beryl@beryl-ThinkPad-L412:~$ locate -c better
4
beryl@beryl-ThinkPad-L412:~$ locate Myname
beryl@beryl-ThinkPad-L412:~$ locate -i Myname
/home/beryl/practice/myname.txt
beryl@beryl-ThinkPad-L412:~$
```

**13 chmod:** the chmod command sets the permissions of files or directories.

[Permission Groups]: [Permission Types]: owner : u Read :г:4 : w : 2 Write group : g other Execute : x : 1 : o all users : a

**Syntax :** chmod [group] = [pemissions], .... [file\_name]

```
beryl@beryl-ThinkPad-L412:~/practice$ ls -l count.txt
-rw-rw-r-- 1 beryl beryl 0 Jul 13 14:24 count.txt
beryl@beryl-ThinkPad-L412:~/practice$ chmod u=rwx,g=rwx count.txt
beryl@beryl-ThinkPad-L412:~/practice$ ls -l count.txt
-rwxrwxr-- 1 beryl beryl 0 Jul 13 14:24 count.txt
```

#### 13.1

You can also use the **numerical (octal representation)** of **Permission types** to **change the permissions.** 

Just simply add the permission octals according to group rank.

```
Eg: If you want to set permissions as -rw - rw - r

Total for owner = r + w i.e., 4 + 2 = 6

Total for group = r + w i.e., 4 + 2 = 6
```

Total for others = r i.e., 4 = 4

i.e., 662

beryl@beryl-ThinkPad-L412:~/practice\$ chmod 664 count.txt
beryl@beryl-ThinkPad-L412:~/practice\$ ls -l count.txt
-rw-rw-r-- 1 beryl beryl 0 Jul 13 14:24 count.txt

#### 14 zip: to create zip archive/commpressed file of multiple files or folders

**Syntax:** zip [archive\_name] [file1] [file2] .... [fileN]

```
beryl@beryl-ThinkPad-L412:~/practice$ ls
bad
          file.txt hello.txt hubble.txt list.txt
                                                               tt.mp3
                                                     song
count.txt good
                   home.txt kite
                                         myname.txt tasks.txt zero.txt
beryl@beryl-ThinkPad-L412:~/practice$
beryl@beryl-ThinkPad-L412:~/practice$ zip zipper bad file.txt hello.txt
  adding: bad/ (stored 0%)
 adding: file.txt (deflated 92%)
 adding: hello.txt (stored 0%)
beryl@beryl-ThinkPad-L412:~/practice$ ls
          good
                    hubble.txt myname.txt tt.mp3
count.txt hello.txt kite
                              song zero.txt
file.txt home.txt list.txt tasks.txt zipper.zip
```

**14.1 -r, --recurse-paths :** In the above example "bad" directory contains subdirectories and files

But, "zipper.zip" does not contain those sub-files
To solve this we can use **-r** option. To include recursive paths

```
beryl@beryl-ThinkPad-L412:~/practice$ rm zipper.zip
beryl@beryl-ThinkPad-L412:~/practice$ zip -r zipper bad file.txt hello.txt
  adding: bad/ (stored 0%)
  adding: bad/hero.txt (stored 0%)
  adding: bad/better/ (stored 0%)
  adding: bad/better/best/ (stored 0%)
  adding: file.txt (deflated 92%)
  adding: hello.txt (stored 0%)
```

\_\_\_\_\_\_

15 tail & head: to view top or bottom10 lines of any file.

```
beryl@beryl-ThinkPad-L412:~/practice$ head numbers.txt
1
2
3
4
5
6
7
8
9
10
```

```
beryl@beryl-ThinkPad-L412:~/practice$ tail numbers.txt
41
42
43
44
45
46
47
48
49
50
```

**16. tac :** Works same like **cat** but prints file in reverse order line-by-line.
- It also concate files in reverse order

```
beryl@beryl-ThinkPad-L412:~/practice$ cat home.txt
Hi my name is Dipanshu.
I live in faridabad.
Faridabad is an urban area.
My home is in the NIT area.
beryl@beryl-ThinkPad-L412:~/practice$ tac home.txt
My home is in the NIT area.
Faridabad is an urban area.
I live in faridabad.
Hi my name is Dipanshu.
```

**17. wc:** to cout the words, charachter or lines ['word count']

**Syntax :** wc [option] [file\_name]

### [optons]:

- 17.1 -l, --lines: prints the line count
- 17.2 -m, --chars: prints the charachter count
- **17.3** -w, --words: prints the word count

```
beryl@beryl-ThinkPad-L412:~/practice$ cat home.txt
Hi my name is Dipanshu.
I live in faridabad.
Faridabad is an urban area.
My home is in the NIT area.
beryl@beryl-ThinkPad-L412:~/practice$ wc -l home.txt
4 home.txt
beryl@beryl-ThinkPad-L412:~/practice$ wc -w home.txt
21 home.txt
beryl@beryl-ThinkPad-L412:~/practice$ wc -m home.txt
101 home.txt
```

18. sort: to sort numbers or text line by line in a file

**Syntax:** *sort* [option(s)] [file\_name]

```
beryl@beryl-ThinkPad-L412:~/practice$ cat names.txt
ajay
vijay
rohit mehta
rohit
pooja
sadhu
sir
sir2
asus
21fashion
beryl@beryl-ThinkPad-L412:~/practice$ sort names.txt
21fashion
ajay
asus
pooja
rohit
rohit mehta
sadhu
sir
sir2
vijay
```

## [options]:

#### **18.1** -n, --numeric-sort: compare according to their numeric value

```
beryl@beryl-ThinkPad-L412:~/practice$ sort numbers.txt
0010000
034
0.74
1
2.34
29
328u3
34 24
8293
laptop
beryl@beryl-ThinkPad-L412:~/practice$ sort -n numbers.txt
laptop
0.74
1
2
2.34
29
034
34 24
328u3
8293
0010000
```

#### **18.2 -r, --reverse**: reverse the results

```
beryl@beryl-ThinkPad-L412:~/practice$ sort -n -r numbers.txt
0010000
8293
328u3
34 24
034
29
2.34
2
1
0.74
laptop
```

#### **18.3 -R, --random-sort:** sort by random hash of keys

```
beryl@beryl-ThinkPad-L412:~/practice$ sort -R numbers.txt
34 24
0.74
8293
0010000
2
034
laptop
2.34
29
328u3
1
```

```
18.4 -h, --human-numeric-sort : compare human readable numbers (1M, 3G, 2T) - sort according to the convention of file sizes - K < M < G < T ....
```

#### 19. | pipe: to provide output of a command as input in other command

```
beryl@beryl-ThinkPad-L412:~/practice$ ls -1 | wc -l
beryl@beryl-ThinkPad-L412:~/practice$ echo "John Wick" | wc -m
beryl@beryl-ThinkPad-L412:~/practice$ ls -1 | sort
bad
count.txt
file.txt
ghar.txt
good
hello.txt
home.txt
hubble.txt
kite
list.txt
myname.txt
names.txt
numbers_sorted.txt
numbers.txt
num.txt
song
tasks.txt
tt.mp3
zero.txt
zipper.zip
```

**20. stat :** the stat command displays the detailed status of a particular file or a file system.

```
beryl@beryl-ThinkPad-L412:~/practice$ stat bad
 File: bad
  Size: 4096
                       Blocks: 8
                                          IO Block: 4096
                                                         directory
Device: 805h/2053d
                       Inode: 13109306
                                          Links: 3
Access: (0775/drwxrwxr-x) Uid: ( 1000/
                                         beryl) Gid: ( 1000/
Access: 2022-07-12 18:15:04.363108559 +0530
Modify: 2022-07-12 17:58:25.571487461 +0530
Change: 2022-07-12 17:58:25.571487461 +0530
 Birth: -
beryl@beryl-ThinkPad-L412:~/practice$ stat names.txt
 File: names.txt
  Size: 66
                       Blocks: 8
                                          IO Block: 4096 regular file
Device: 805h/2053d
                      Inode: 12866661
                                          Links: 1
Access: (0664/-rw-rw-r--) Uid: ( 1000/
                                        beryl) Gid: ( 1000/
Access: 2022-07-13 15:56:47.741481166 +0530
Modify: 2022-07-13 15:52:50.148276201 +0530
Change: 2022-07-13 15:52:50.204276377 +0530
Ricth. -
```

21. cal: - the cal commands display a formatted calendar in the terminal.

```
beryl@beryl-ThinkPad-L412:~/practice$ cal
    July 2022
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
beryl@beryl-ThinkPad-L412:~/practice$ cal -m 12
  December 2022
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
beryl@beryl-ThinkPad-L412:~/practice$ cal 12 1997
  December 1997
Su Mo Tu We Th Fr Sa
     2 3 4 5 6
   1
  8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31
```

22. clear: - to clear the screen of the terminal.- Can also use ctrl+l

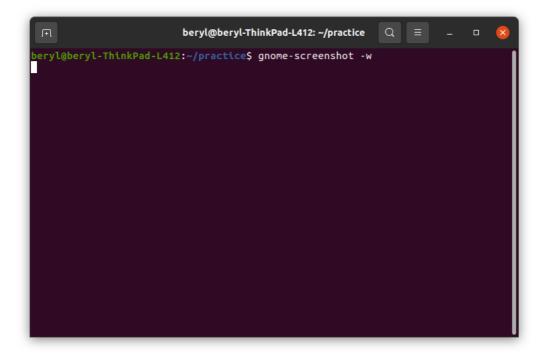
23. exit: - closes the terminal window.

.....

#### **Screenshot Commands:**

gnome-screenshot :- screenshot of whole screen
 gnome-screenshot -w :- screenshot of terminal window
 gnome-screenshot -d t :- screenshot taken after 't' seconds

gnome-screenshot -a :- custom screenshot



• nano: - nano is a simple text editor that can be run in the terminal itself.

Run / Launch: just write 'nano'

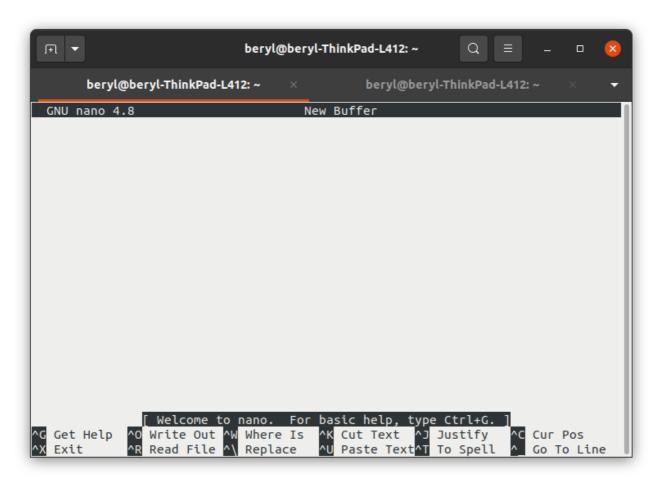


Figure 1: nano editor first run screen

**Open File:-** nano [file name / path]

\* If no file of that existed then nano will create an empty file of same name

**Save File: -** You can type text simply like a normal text editer in nano.

**Ctrl + o** is used to write out save file.

Help Menu: - To open help shorcut menu press ctrl + g

Exit nano: - You can exit nano by pressing ctrl + x