Display contents of file

```
L509@user:~/Desktop$ ls -1
cs22b2044
```

2. cat

Display Text in terminal. Opens the file

```
L509@user:~/Desktop/Lab10S$ cat demo
Andi Mandi Sandi
BAs itna hee
```

3. more

Displays data but waits for 'enter' to be pressed to display content after one screen.

```
L509@user:~/Desktop/Lab10S$ more demo
Andi Mandiefdefodsopdsf
fdsnkfdsob;gfdeougfd
\]efndjsklpgfskfdkjfeoiw[r3-
fewre]ew6ref6453ew4f65ew
543f fewfewf
2e wf ewf
ewf
ds31f6ee3562
fes64/d
fdsfed
6f.5e6.5fesd
fd
64/3fde
3fds35f
d3fd5f
d5fdsf4ew5f66g54de546g65d4sf536ds46fg6s4gf46ds6gdlji
sajfoijsafsifsfsiafinsa
Nigga
3
32656453*
afsaffdljkewf; sewq diuwdhnsandsf'sfsflfsas
--More--(77%)
```

4. less

Less command is a Linux utility that can be used to read the contents of a text file one page (one screen) at a time.

```
Andi Mandiefdefodsopdsf
fdsnkfdsob;gfdeougfd
\]efndjsklpgfskfdkjfeoiw[r3-
fewre]ew6ref6453ew4f65ew
543f fewfewf
2e wf ewf
ewf
ds31f6ee3562
fes64/d
fdsfed
6f.5e6.5fesd
fd
64/3fde
3fds35f
d3fd5f
d5fdsf4ew5f66g54de546g65d4sf536ds46fg6s4gf46ds6gdlji
sajfoijsafsifsfsiafinsa
Nigga
3
32656453*
afsaffdljkewf; sewg diuwdhnsandsf'sfsflfsas
visit niggatraders.in to get personalized nigga.
fdlkjwspoideoidsfbdfgdef
4553f45655
4566354663
(END)
```

5.cp Copy contents from text file to text file to new text file Copy contents from one directory to another

```
L509@user:~/Desktop/Lab10S$ cp demo trial
L509@user:~/Desktop/Lab10S$ cp demo Trial
```

6. cp –R: This command is used to copy directories recursively (copy all the files and folders inside the directory).

```
L509@user:~/Desktop/Lab10S$ cp -R Trial Trial2
L509@user:~/Desktop/Lab10S$ ls Trial2
demo
L509@user:~/Desktop/Lab10S$ ls Trial
demo
```

7.mv: This command is used to move the file or directory.

```
L509@user:~/Desktop/Lab10S$ ls Trial
demo
L509@user:~/Desktop/Lab10S$ mv cat.png Trial
L509@user:~/Desktop/Lab10S$ ls Trial
cat.png demo
```

8.rm: This command is used to remove or delete files and directories

```
L509@user:~/Desktop/Lab10S/Trial$ ls
cat.png demo
L509@user:~/Desktop/Lab10S/Trial$ rm demo
L509@user:~/Desktop/Lab10S/Trial$ ls
cat.png
L509@user:~/Desktop/Lab10S/Trial$
```

9.mkdir: This command is used to create a new directory This will create a new directory - directory3.

```
L509@user:~/Desktop/Lab10S/Trial$ ls
cat.png
L509@user:~/Desktop/Lab10S/Trial$ mkdir fff
L509@user:~/Desktop/Lab10S/Trial$ ls
cat.png fff
```

10. tar- Archives file of some pattern

```
L509@user:~/Desktop/Lab10S$ ls
           demo
                                   mkdtr.png
                                                                Trial2
                                                        trial
           lab1.odt 'ls -1.png' more.png
                                                        Trial
L509@user:~/Desktop/Lab10S$ tar cvf file.tar *.png
cp.png
cp-R.png
less.png
ls -1.png
mkdir.png
more.png
mv.png
rm.png
L509@user:~/Desktop/Lab10S$ ls
           demo
                       lab1.odt
                                              more.png
                                                                   Trial
 cp-R.png
                                mkdir.png
                                                         trial
                                                                   Trial2
_509@user:~/Desktop/Lab10S$
```

11. grep Finds word/ pattern in the file

```
L509@user:~/Desktop/Lab10S$ grep -i "window" demo
Window wdfewfeaf .
window.
fsdfkdsfu window.
```

12. find

Search for file with partial name or full name

```
L509@user:~/Desktop$ find ./Lab10S -name demo
./Lab10S/Trial2/demo
./Lab10S/demo
L509@user:~/Desktop$
```

13.ssh -

```
[-w local_tun[:remote_tun]] destination [command]
L509@user:~/Desktop$ ssh L509@user
-ssh: connect to host user port 22: Connection refused
L509@user:~/Desktop$ ssh -1 L509@user
SSH protocol v.1 is no longer supported
```

14.diff – Difference in two files

```
/Desktop/Lab10S$ diff demo1.txt demo
1c1,29 < dwflkjdsflhvkdsflkhvdsflksf
> Andi Mandiefdefodsopdsf
> fdsnkfdsob;gfdeougfd
> \]efndjsk\pgfskfdkjfeoiw[r3-
> fewre]ew6ref6453ew4f65ew
> 543f fewfewf
> 2e wf ewf
> ewf
> ds31f6ee3562
> fes64/d
> fdsfed
> 6f.5e6.5fesd
> fd
> Window wdfewfeaf .
> 64/3fde
> 3fds35f
> window.
> fsdfkdsfu window.
> d3fd5f
> d5fdsf4ew5f66g54de546g65d4sf536ds46fg6s4gf46ds6gdlji
> sajfoijsafsifsfsiafinsa
> Nigga
> 32656453*
afsaffdljkewf; sewq diuwdhnsandsf'sfsflfsasvisit niggatraders.in to get personalized nigga.
  fdlkjwspoideoidsfbdfgdef
   4553f45655
   4566354663
```

15. sort-Sorts Data in file

```
.509@user:~/Desktop/Lab105$ sort demo
2e wf ewf
32656453*
3fds35f
4553f45655
4566354663
45
543f fewfewf
64/3fde
6f.5e6.5fesd
afsaffdljkewf; sewq diuwdhnsandsf'sfsflfsas
Andi Mandiefdefodsopdsf
d3fd5f
d5fdsf4ew5f66g54de546g65d4sf536ds46fg6s4gf46ds6gdlji
ds31f6ee3562
\]efndjsklpgfskfdkjfeoiw[r3-
ewf
fd
fdlkjwspoideoidsfbdfgdef
fdsfed
fdsnkfdsob; gfdeougfd
fes64/d
fewre]ew6ref6453ew4f65ew
fsdfkdsfu window.
Nigga
sajfoijsafsifsfsiafinsa
visit niggatraders.in to get personalized nigga.
window.
Window wdfewfeaf
```

16.pwd-Shows the path of present directories

/home/L509/Desktop/Lab10S\$ pwd /home/L509/Desktop/Lab10S

17. gzip Zips file and delete orignal

```
L509@user:~/Desktop/Lab10S/Trial$ ls
cat.png fff
L509@user:~/Desktop/Lab10S/Trial$ gzip cat.png
L509@user:~/Desktop/Lab10S/Trial$ ls
cat.png.gz fff
```

18. ps -

Shows pids in terminal

```
L509@user:~/Desktop/Lab10S/Trial$ ps
PID TTY TIME CMD
7871 pts/0 00:00:00 bash
10957 pts/0 00:00:00 ps
```

19. free

Shows available memory

```
L509@user:~/Desktop/Lab10S/Trial$ free
                                                            buff/cache
                                                                          available
              total
                            used
                                         free
                                                    shared
            7839096
                         1663620
                                                    82472
                                                               2113628
                                                                            5832280
Mem:
                                      4061848
            2097148
                               0
                                      2097148
Swap:
```

Kills task with pid

L509@user:~\$ kill -9 11206

21. chmod

- `+` Add permissions
- `-` Remove permissions
- `=` Set the permissions to the specified values
- `r` Read permission
- `w` Write permission
- `x` Execute permission

Reference Class

- **u** Owner
- g Group
- **o** Others
- **a** All (owner, groups, others)

```
L509@user:~/Desktop/Lab10S$ chmod a-rw demo1.txt
L509@user:~/Desktop/Lab10S$ gedit demo1.txt
```



6.a time who

```
L509@user:~/Desktop/Lab10S$ time who myfile
real 0m0.002s
user 0m0.002s
sys 0m0.000s
```

6 b. top

pkill

L509@user:~\$ pkill -9 firefox

pgrep

L509@user:~\$ pgrep ssh 2724

glances

er (Ubuntu Core 2)	0 64bit / L	inux 5.	15.0-78	generi				3011110	,	,									Uptime	: 2:43
th Gen Intel(R) C	ore(TM) i5-:	11400 @	2.60GH	z - 2.6	59/4.40GHz		CPU	23.0%			ctx_sw		MEM	45.8%	active		SWAP	0.0%	LOAD	1200
U [[]]]]]]]						23.0%]	user	25.9%	irq		inter	7K	total	7.48G	inacti			2.00G	1 min	
W EUROLIUM						45.8%]	system				sw_int		used		buffer		used	0	5 min	
AP [0.0%]	iowait	0.8%	steal				free	4.06G	cached	2.47G	free	2.00G	15 Mi	n 1.
TWORK		Tx/s	TASKS	387 (1	1894 thr), 1	run, 289		oth Thre	eads sor	ted auto	maticall	y by CPU	consumption							
01	1.18Mb 61Kb	61Kb	CPU%	MEM%	VIRT RES	PID	USER		ME+ THR	NI S	R/s W/s	Command	('e' to pin	l'k' to	kill)					
			136		6.23G 491M		L509		:20 39	0 S										
P CONNECTIONS					3.88G 502M	15137	L509		2:13 158	0 S			-new-window							
					2.61G 390M	15505	L509		:58 37	0 S			-contentproc	-childID	8 -tsF	orBrowser	-prefsLen 29382	-prefMapSize	235106	-jsIni
					618M 370M	2650	L509		5:39 2	0 5										
					184M 35.0	4 17667	L509		0:01 1		0 0		/snap/glance	s/1502/bi	n/glance	es				
					2.48G 207M	15563			9:08 28	0 S							-prefsLen 29382			
					2.34G 109M	15623			0:01 27	0 S							r -prefsLen 2938:			
					2.33G 105M	16320			0:01 28	0 5							r -prefsLen 2938			
					2.33G 99.4				0:01 27	0 S							r -prefsLen 2938:			
					2.32G 98.9				9:01 27	0 S							r -prefsLen 2938	2 -prefMapSize	235106	-jsI
					3.84G 21.0		L509						diodaemoni							
					2.33G 98.5				0:01 27	0 S							r -prefsLen 2938			
					2.32G 95.7				0:01 27	0 S							r -prefsLen 2938			
					2.31G 92.4				0:00 27	0 S							r -prefsLen 2938			
					2.31G 91.2				0:00 27	0 S							r -prefsLen 2938			
									0:01 27	0 S							r -prefsLen 2938			
					2.32G 95.9				0:00 27	0 S	? ?						r -prefsLen 2938			
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					2.31G 93.2				0:00 27	0 S	? ?						r -prefsLen 2938			
					2.32G 92.9				0:00 27	0 S	? ?						r -prefsLen 2938:			
					2.31G 92.7				0:00 27	0 S							r -prefsLen 2938			
					2.31G 91.9				0:00 27	0 S	? ?						r -prefsLen 2938:			
					2.31G 91.8				0:00 27	0 S							r -prefsLen 2938			
					2.31G 91.1				0:00 27	0 S	? ?						r -prefsLen 2938:			
					2.31G 90.7				0:00 27	0 S							r -prefsLen 2938			
					2.31G 90.0				0:00 27	0 S	? ?						r -prefsLen 2938:			
					2.31G 89.0				0:00 27	0 S							r -prefsLen 2938			
					2.31G 88.9				0:00 27	0 S	? ?						r -prefsLen 2938			
					2.32G 101M				0:00 27	0 S	? ?						r -prefsLen 2938			
					2.33G 97.9				0:01 28	0 S							r -prefsLen 2938:			
					2.31G 94.4				0:00 27	0 S							r -prefsLen 2938			
					2.31G 92.6				0:00 27	0 S	? ?			-currain	27 - LS	ForBrowse	r -prefsLen 2938	z -prermapsize	235106	-]51
					77.1M 36.1		root		0:01 1	-1 S	? ?		d-journal]	1 1 2 1 1 2 2						
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					2.32G 96.4				0:00 27	0 S	? ?						r -prefsLen 2938			
					2.31G 89.8				0:00 23	0 S	? ?				40 - LS	rorbrowse	r -prefsLen 2938:	z -prermapStze	235106	- JsI
					803M 54.4				0:10 5	0 S	? ?									
					123M 9.85		root		0:00 2	0 S	? ?									
				0.1	10.6M 6.04		avahi		2:05 1	0 S	? ?									
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