

112103049

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DTL ASSIGNMENT

[Linux and Shell bash commands]

```
root@DESKTOP-D9SJ2TQ:~/dtl# mkdir linux
root@DESKTOP-D9SJ2TQ:~/dtl# mkdir 194009
root@DESKTOP-D9SJ2TQ:~/dtl# mv 194009 Linux
root@DESKTOP-D9SJ2TQ:~/dtl# ls
1.text  Hello  Linux  ass4  forDeleting  linux  myte
root@DESKTOP-D9SJ2TQ:~/dtl# Linux
Linux: command not found
root@DESKTOP-D9SJ2TQ:~/dtl# cd Linux
root@DESKTOP-D9SJ2TQ:~/dtl/Linux# Linux
Linux: command not found
root@DESKTOP-D9SJ2TQ:~/dtl/Linux# ls -la
total 12
drwxr-xr-x 3 root root 4096 Jan 20 00:12 .
drwxr-xr-x 6 root root 4096 Jan 20 00:12 ..
drwxr-xr-x 2 root root 4096 Jan 20 00:12 194009
```

Mkdir,ls command

```
root@DESKTOP-D9SJ2TQ:~/dtl# ls -la
total 24
drwxr-xr-x 3 root root 4096 Jan 19 23:12 .
drwx----- 5 root root 4096 Jan 19 20:39 ..
drwxr-xr-x 3 root root 4096 Jan 19 23:12 Linux
-rw-r--r-- 1 root root 0 Jan 19 20:38 ass4
-rw-r--r-- 1 root root 1882 Jan 19 20:38 file.txt
-rw-r--r-- 1 root root 1882 Jan 19 20:39 file1.txt
-rw-r--r-- 1 root root 1882 Jan 19 20:42 file2.txt
root@DESKTOP-D9SJ2TQ:~/dtl# mkdir Hello
root@DESKTOP-D9SJ2TQ:~/dtl# ls
Hello Linux ass4 file.txt file1.txt file2.txt
root@DESKTOP-D9SJ2TQ:~/dtl# ls -d
.
root@DESKTOP-D9SJ2TQ:~/dtl# ld -f
ld: unrecognized option '-f'
ld: use the --help option for usage information
root@DESKTOP-D9SJ2TQ:~/dtl# ls -la
total 28
drwxr-xr-x 4 root root 4096 Jan 19 23:13 .
drwx----- 5 root root 4096 Jan 19 20:39 ..
drwxr-xr-x 2 root root 4096 Jan 19 23:13 Hello
drwxr-xr-x 3 root root 4096 Jan 19 23:12 Linux
-rw-r--r-- 1 root root 0 Jan 19 20:38 ass4
-rw-r--r-- 1 root root 1882 Jan 19 20:38 file.txt
-rw-r--r-- 1 root root 1882 Jan 19 20:39 file1.txt
-rw-r--r-- 1 root root 1882 Jan 19 20:42 file2.txt
root@DESKTOP-D9SJ2TQ:~/dtl# echo "Aishwarya Prakash Koli"
Aishwarya Prakash Koli
root@DESKTOP-D9SJ2TQ:~/dtl# touch mytext.txt
root@DESKTOP-D9SJ2TQ:~/dtl# ls -la
total 28
drwxr-xr-x 4 root root 4096 Jan 19 23:15 .
drwx----- 5 root root 4096 Jan 19 20:39 ..
drwxr-xr-x 2 root root 4096 Jan 19 23:13 Hello
drwxr-xr-x 3 root root 4096 Jan 19 23:12 Linux
-rw-r--r-- 1 root root 0 Jan 19 20:38 ass4
-rw-r--r-- 1 root root 1882 Jan 19 20:38 file.txt
```

```
root@DESKTOP-D9SJ2TQ:~/dtl# ls -la
total 28
drwxr-xr-x 4 root root 4096 Jan 19 23:15 .
drwx----- 5 root root 4096 Jan 19 20:39 ..
drwxr-xr-x 2 root root 4096 Jan 19 23:13 Hello
drwxr-xr-x 3 root root 4096 Jan 19 23:12 Linux
-rw-r--r-- 1 root root 0 Jan 19 20:38 ass4
-rw-r--r-- 1 root root 1882 Jan 19 20:38 file.txt
-rw-r--r-- 1 root root 1882 Jan 19 20:39 file1.txt
-rw-r--r-- 1 root root 1882 Jan 19 20:42 file2.txt
-rw-r--r-- 1 root root 0 Jan 19 23:15 mytext.txt
root@DESKTOP-D9SJ2TQ:~/dtl# 194009
194009: command not found
root@DESKTOP-D9SJ2TQ:~/dtl# nano mytext1.txt
root@DESKTOP-D9SJ2TQ:~/dtl# cat mytext1.txt
cat: mytext1.txt: No such file or directory
root@DESKTOP-D9SJ2TQ:~/dtl# nano mytext1.txt
root@DESKTOP-D9SJ2TQ:~/dtl# cat mytext1.txt
hello, name _Aishwarya Koli
MIS_112103006
```

Echo command,touch command

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.  
root@DESKTOP-D9SJ2TQ:~/dtl# batcat mytext1.txt
```

	File: mytext1.txt
1	hello_name _Aishwarya Koli
2	MIS_112103006
3	
4	appending
	root@DESKTOP-D9SJ2TQ:~/dtl# mkdir forDeleting
	root@DESKTOP-D9SJ2TQ:~/dtl# ls -la
	total 44
	drwxr-xr-x 5 root root 4096 Jan 19 23:57 .
	drwx----- 6 root root 4096 Jan 19 23:55 ..
	-rw-r--r-- 1 root root 26 Jan 19 23:50 1.text
	drwxr-xr-x 2 root root 4096 Jan 19 23:13 Hello
	drwxr-xr-x 3 root root 4096 Jan 19 23:12 Linux
	-rw-r--r-- 1 root root 0 Jan 19 20:38 ass4
	-rw-r--r-- 1 root root 1882 Jan 19 20:38 file.txt
	-rw-r--r-- 1 root root 1882 Jan 19 20:39 file1.txt
	-rw-r--r-- 1 root root 1882 Jan 19 20:42 file2.txt
	drwxr-xr-x 2 root root 4096 Jan 19 23:57 forDeleting
	-rw-r--r-- 1 root root 59 Jan 19 23:22 myte
	-rw-r--r-- 1 root root 0 Jan 19 23:15 mytext.txt
	-rw-r--r-- 1 root root 53 Jan 19 23:52 mytext1.txt
	root@DESKTOP-D9SJ2TQ:~/dtl# touch 1.txt
	root@DESKTOP-D9SJ2TQ:~/dtl# touchMy.txt
	touchMy.txt: command not found
	root@DESKTOP-D9SJ2TQ:~/dtl# touch my.txt
	root@DESKTOP-D9SJ2TQ:~/dtl# ls -la
	total 44

Batcat command

```
root@DESKTOP-D9SJ2TQ:~/dtl# touchMy.txt  
touchMy.txt: command not found  
root@DESKTOP-D9SJ2TQ:~/dtl# touch my.txt  
root@DESKTOP-D9SJ2TQ:~/dtl# ls -la  
total 44  
drwxr-xr-x 5 root root 4096 Jan 19 23:58 .  
drwx----- 6 root root 4096 Jan 19 23:55 ..  
-rw-r--r-- 1 root root 26 Jan 19 23:50 1.text  
-rw-r--r-- 1 root root 0 Jan 19 23:57 1.txt  
drwxr-xr-x 2 root root 4096 Jan 19 23:13 Hello  
drwxr-xr-x 3 root root 4096 Jan 19 23:12 Linux  
-rw-r--r-- 1 root root 0 Jan 19 20:38 ass4  
-rw-r--r-- 1 root root 1882 Jan 19 20:38 file.txt  
-rw-r--r-- 1 root root 1882 Jan 19 20:39 file1.txt  
-rw-r--r-- 1 root root 1882 Jan 19 20:42 file2.txt  
drwxr-xr-x 2 root root 4096 Jan 19 23:57 forDeleting  
-rw-r--r-- 1 root root 0 Jan 19 23:58 my.txt  
-rw-r--r-- 1 root root 59 Jan 19 23:22 myte  
-rw-r--r-- 1 root root 0 Jan 19 23:15 mytext.txt  
-rw-r--r-- 1 root root 53 Jan 19 23:52 mytext1.txt  
root@DESKTOP-D9SJ2TQ:~/dtl# ls  
1.text 1.txt Hello Linux ass4 file.txt file1.txt file2.txt forDeleting my.txt myte mytext.txt mytext1.txt  
root@DESKTOP-D9SJ2TQ:~/dtl# rm *.txt  
root@DESKTOP-D9SJ2TQ:~/dtl# ls  
1.text Hello Linux ass4 forDeleting myte  
root@DESKTOP-D9SJ2TQ:~/dtl# echo Aishwarya Koli  
Aishwarya Koli  
root@DESKTOP-D9SJ2TQ:~/dtl# echo -e "Aishwarya Koli"  
root@DESKTOP-D9SJ2TQ:~/dtl# ls  
1.text Hello Linux ass4 forDeleting myte  
1.txt Hello Linux ass4 forDeleting myte
```

For deleting

```
root@DESKTOP-D9SJ2TQ:~/dtl/Linux/194009#
root@DESKTOP-D9SJ2TQ:~/dtl/Linux/194009#
root@DESKTOP-D9SJ2TQ:~/dtl/Linux/194009#
root@DESKTOP-D9SJ2TQ:~/dtl/Linux/194009#
root@DESKTOP-D9SJ2TQ:~/dtl/Linux/194009#
root@DESKTOP-D9SJ2TQ:~/dtl/Linux/194009#
root@DESKTOP-D9SJ2TQ:~/dtl/Linux/194009# clear
```

Clear command

```
root@DESKTOP-D9SJ2TQ:~# find dtl
./a9.c      ./Documents    ./Pictures    ./Videos    ./a8.c      ./bn.c      ./dxa.c      ./file1.txt    ./hb.c      ./pp12a.c    ./q1.c      ./qd      ./search.c      ./searchsort.c    ./searchsort.h    ./sorting.c
./Desktop   ./Music       ./Templates   ./a7.c      ./a8.cc     ./dxa      ./dtl      ./hb      ./output      ./q2.c      ./q4.c      ./search      ./search.h      ./searchsort.h    ./snap      ./vbn.c
root@DESKTOP-D9SJ2TQ:~#
```

Find command

```
root@DESKTOP-D9SJ2TQ:~# df dtl
Filesystem      1K-blocks    Used   Available  Use% Mounted on
/dev/sdc        1055762868 1744980 1000314416   1% /
root@DESKTOP-D9SJ2TQ:~# df -h
Filesystem      Size   Used  Avail Use% Mounted on
none            3.9G  4.0K  3.9G  1% /mnt/wsl
drivers          915G  443G  473G  49% /usr/lib/wsl/drivers
none            3.9G    0   3.9G  0% /usr/lib/wsl/lib
/dev/sdc        1007G  1.7G  954G  1% /
none            3.9G   72K  3.9G  1% /mnt/wslg
rootfs           3.9G  1.9M  3.9G  1% /init
none            3.9G  4.0K  3.9G  1% /run
none            3.9G    0   3.9G  0% /run/lock
none            3.9G    0   3.9G  0% /run/shm
none            3.9G    0   3.9G  0% /run/user
tmpfs            3.9G    0   3.9G  0% /sys/fs/cgroup
none            3.9G   72K  3.9G  1% /mnt/wslg/versions.txt
none            3.9G   72K  3.9G  1% /mnt/wslg/doc
drvfs            915G  443G  473G  49% /mnt/c
root@DESKTOP-D9SJ2TQ:~# df -k
Filesystem      1K-blocks    Used   Available  Use% Mounted on
none            4000752      4   4000748   1% /mnt/wsl
drivers          959320060 464231796 495088264  49% /usr/lib/wsl/drivers
none            4000752      0   4000752   0% /usr/lib/wsl/lib
/dev/sdc        1055762868 1744980 1000314416   1% /
none            4000752      72  4000680   1% /mnt/wslg
rootfs           3997508   1896  3995612   1% /init
none            4000752      4   4000748   1% /run
none            4000752      0   4000752   0% /run/lock
none            4000752      0   4000752   0% /run/shm
none            4000752      0   4000752   0% /run/user
tmpfs            4000752      0   4000752   0% /sys/fs/cgroup
none            4000752      72  4000680   1% /mnt/wslg/versions.txt
none            4000752      72  4000680   1% /mnt/wslg/doc
drvfs            959320060 464231796 495088264  49% /mnt/c
```

Df(disk space)command

```

root@DESKTOP-D9SJ2TQ:~# du -m
4      dtl/linux
4      dtl/Linux/194009
8      dtl/Linux
4      dtl/Hello
4      dtl/forDeleting
32      dtl
root@DESKTOP-D9SJ2TQ:~# du -m
1      ./local/share/nano
1      ./local/share
1      ./local
1      ./dtl/linux
1      ./dtl/Linux/194009
1      ./dtl/Linux
1      ./dtl>Hello
1      ./dtl/forDeleting
1      ./dtl
1      ./snap/current/ubuntu-desktop-installer/.config/gtk-2.0
1      ./snap/current/ubuntu-desktop-installer/.config/ibus
1      ./snap/current/ubuntu-desktop-installer/.config/fontconfig
1      ./snap/current/ubuntu-desktop-installer/.config/gtk-3.0
1      ./snap/current/ubuntu-desktop-installer/.config
1      ./snap/current/ubuntu-desktop-installer/.local/share/icons
2      ./snap/current/ubuntu-desktop-installer/.local/share/nime/application
1      ./snap/current/ubuntu-desktop-installer/.local/share/nime/inode
1      ./snap/current/ubuntu-desktop-installer/.local/share/nime/font
1      ./snap/current/ubuntu-desktop-installer/.local/share/nime/x-content
1      ./snap/current/ubuntu-desktop-installer/.local/share/nime/model
1      ./snap/current/ubuntu-desktop-installer/.local/share/nime/image
1      ./snap/current/ubuntu-desktop-installer/.local/share/nime/message
3      ./snap/current/ubuntu-desktop-installer/.local/share/nime/packages
1      ./snap/current/ubuntu-desktop-installer/.local/share/nime/text
1      ./snap/current/ubuntu-desktop-installer/.local/share/nime/audio
1      ./snap/current/ubuntu-desktop-installer/.local/share/nime/multipart
1      ./snap/current/ubuntu-desktop-installer/.local/share/nime/video
1      ./snap/current/ubuntu-desktop-installer/.local/share/nime/x-e poc
6      ./snap/current/ubuntu-desktop-installer/.local/share/mime
1      ./snap/current/ubuntu-desktop-installer/.local/share/glib-2.0/schemas
1      ./snap/current/ubuntu-desktop-installer/.local/share/glib-2.0
6      ./snap/current/ubuntu-desktop-installer/.local/share
6      ./snap/current/ubuntu-desktop-installer/.local
6      ./snap/current/ubuntu-desktop-installer
6      ./snap/current
1      ./snap/common/ubuntu-desktop-installer/.cache/gio-modules
1      ./snap/common/ubuntu-desktop-installer/.cache/immodules
1      ./snap/common/ubuntu-desktop-installer/.cache
1      ./snap/common/ubuntu-desktop-installer
1      ./snap/common
6      ./snap
1      ./ppl2a
11      .

```

Du (space of file)command

```

root@DESKTOP-D9SJ2TQ:~# ps ux
USER     PID %CPU %MEM    VSZ   RSS TTY      STAT START  TIME COMMAND
root      1  0.0  0.0  2276  1532 ?        S+ 11:53  0:00 /init
root      4  0.0  0.0  2276  1124 ?        S+ 11:53  0:00 plan9 --control-socket 5 --log-level 4 --server-fd 6 --pipe-fd 8 --log-truncate
root      7  0.0  0.0  2284  100 ?        S+ 11:53  0:00 /init
root      8  0.0  0.0  2300  104 ?        S+ 11:53  0:00 /init
root      9  0.0  0.0  9104  5168 pts/0    S+ 11:53  0:00 -bash
root     144 0.0  0.0 10456  3208 pts/0    R+   12:45  0:00 ps ux
root@DESKTOP-D9SJ2TQ:~# ps -t
          PID TTY      STAT  TIME COMMAND
         9 pts/0    Ss      0:00 -bash
        145 pts/0    R+      0:00 ps -t
root@DESKTOP-D9SJ2TQ:~#

```

Ps command

```
root@DESKTOP-D9SJ2TQ:~# history 8
294 ps-t
295 ps ux
296 ps -t
297 su [koli] [DESKTOP]
298 history dtl
299 history 3
300 history q3
301 history 8
root@DESKTOP-D9SJ2TQ:~# history 16
287 df -h
288 df -k
289 df -t
290 du dtl
291 du -m
292 head dtl
293 head q4
294 ps-t
295 ps ux
296 ps -t
297 su [koli] [DESKTOP]
298 history dtl
299 history 3
300 history q3
301 history 8
302 history 16
root@DESKTOP-D9SJ2TQ:~#
```

History command

```
root@DESKTOP-D9SJ2TQ:~# uname -s
Linux
root@DESKTOP-D9SJ2TQ:~# uname -n
DESKTOP-D9SJ2TQ
root@DESKTOP-D9SJ2TQ:~# |
```

Uname command

```
diff: .: No such file or directory
root@DESKTOP-D9SJ2TQ:~# diff q3 q4
Binary files q3 and q4 differ
```

Diff command

```
cat: invalid number of lines: -l  
root@DESKTOP-D9SJ2TQ:~# wc -l q3  
7 q3  
root@DESKTOP-D9SJ2TQ:~# wc -l q4  
4 q4  
root@DESKTOP-D9SJ2TQ:~#
```

Wc command

```
cat: invalid number of lines: -l  
root@DESKTOP-D9SJ2TQ:~# wc -l q3  
7 q3  
root@DESKTOP-D9SJ2TQ:~# wc -l q4  
4 q4  
root@DESKTOP-D9SJ2TQ:~# wc -w q3  
51 q3  
root@DESKTOP-D9SJ2TQ:~# wc -c  
0  
root@DESKTOP-D9SJ2TQ:~# wc -c q3  
16056 q3  
root@DESKTOP-D9SJ2TQ:~# wc -m q3  
15522 q3  
root@DESKTOP-D9SJ2TQ:~# wc -L q3  
778 q3  
root@DESKTOP-D9SJ2TQ:~#
```

```
+ 194009 cat --help
Usage: cat [OPTION]... [FILE]...
Concatenate FILE(s) to standard output.

With no FILE, or when FILE is -, read standard input.

-A, --show-all      equivalent to -vET
-b, --number-nonblank number nonempty output lines, overrides -n
-e                 equivalent to -vE
-E, --show-ends    display $ at end of each line
-n, --number       number all output lines
-s, --squeeze-blank suppress repeated empty output lines
-t                 equivalent to -vT
-T, --show-tabs   display TAB characters as ^I
-u                 (ignored)
-v, --show-nonprinting use ^ and M- notation, except for LFD and TAB
--help            display this help and exit
--version         output version information and exit

Examples:
cat f - g  Output f's contents, then standard input, then g's contents.
cat          Copy standard input to standard output.

GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
Report cat translation bugs to <https://translationproject.org/team/>
Full documentation at: <https://www.gnu.org/software/coreutils/cat>
or available locally via: info '(coreutils) cat invocation'
+ 194009 |
```

Cat command

```
→ 194009 cat > 1.txt
My name is 1.txt!!
^Z
[6] + 684 suspended cat > 1.txt
→ 194009 cat > My.txt
Hello Guys, my name is My.txt!!!!!

^Z
[7] + 687 suspended cat > My.txt
→ 194009 cat 1.txt
My name is 1.txt!!
→ 194009 cat My.txt
Hello Guys, my name is My.txt!!!!!

→ 194009 |
```

Adding text

```
→ 194009 cat > mytext1.txt
Hello!
Basic Cat Command is working!
^Z
[1] + 211 suspended cat > mytext1.txt
→ 194009 cat mytext1.txt
Hello!
Basic Cat Command is working!
→ 194009 |
```

```
→ 194009 cat >> mytext1.txt
Appending again!

^Z
[2] + 220 suspended cat >> mytext1.txt
→ 194009 cat mytext1.txt
Hello!
Basic Cat Command is working!
Appending again!

→ 194009 |
```

```
→ 194009 mkdir forDeleting
→ 194009 ls -la
total 0
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:38 .
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:23 ..
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:38 forDeleting
-rwxrwxrwx 1 samtech2543 samtech2543 55 Mar 25 14:35 mytext1.txt
→ 194009 rmdir forDeleting
→ 194009 ls -la
total 0
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:38 .
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:23 ..
-rwxrwxrwx 1 samtech2543 samtech2543 55 Mar 25 14:35 mytext1.txt
→ 194009 |
```

```
→ 194009 touch 1.txt
→ 194009 touch My.txt
→ 194009 touch my.txt
→ 194009 ls -la
total 0
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:40 .
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:23 ..
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:40 1.txt
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:40 My.txt
-rwxrwxrwx 1 samtech2543 samtech2543 55 Mar 25 14:35 mytext1.txt
→ 194009 |
```

```
→ 194009 ls
1.txt  My.txt  data.csv  data2.csv  for_vi.txt  mytext1.txt  toCopy.txt  vi.docx  vi_demo.txt
→ 194009 rm *.txt
→ 194009 ls
data.csv  data2.csv  vi.docx
→ 194009 |
```

Rm (remove command)

```
→ 194009 ls [0-9]*
1.txt
→ 194009 |
```

Regex command

```
→ 194009 ls [a-z]*
mytext1.txt
→ 194009 |
```

```
→ 194009 ls [A-Z]*
My.txt
→ 194009 |
```

```
total 0
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:40 .
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:23 ..
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:40 1.txt
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:40 My.txt
-rwxrwxrwx 1 samtech2543 samtech2543 55 Mar 25 14:35 mytext1.txt
→ 194009 touch data.csv
→ 194009 ls -la
total 0
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:42 .
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:23 ..
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:40 1.txt
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:40 My.txt
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:42 data.csv
-rwxrwxrwx 1 samtech2543 samtech2543 55 Mar 25 14:35 mytext1.txt
→ 194009 touch data2.csv
→ 194009 ls -la
total 0
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:43 .
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:23 ..
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:40 1.txt
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:40 My.txt
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:42 data.csv
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:43 data2.csv
-rwxrwxrwx 1 samtech2543 samtech2543 55 Mar 25 14:35 mytext1.txt
→ 194009 |
```

```
→ 194009 ls -la
total 0
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:43 .
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:23 ..
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:40 1.txt
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:40 My.txt
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:42 data.csv
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:43 data2.csv
-rwxrwxrwx 1 samtech2543 samtech2543 55 Mar 25 14:35 mytext1.txt
→ 194009 ls ???.txt
My.txt
→ 194009 |
```

```
./Linux/194009 × + ▾
→ 194009 ls -la
total 0
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:43 .
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:23 ..
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:40 1.txt
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:40 My.txt
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:42 data.csv
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:43 data2.csv
-rwxrwxrwx 1 samtech2543 samtech2543 55 Mar 25 14:35 mytext1.txt
→ 194009 ls *.csv
data.csv data2.csv
→ 194009 ls *.txt
1.txt My.txt mytext1.txt
→ 194009 |
```

```
→ Linux bc
bc 1.07.1
Copyright 1991-1994, 1997, 1998, 2000, 2004, 2006, 2008, 2012-2017 Free Software Foundation, Inc.
This is free software with ABSOLUTELY NO WARRANTY.
For details type `warranty'.
3+89
92
567/9
63
→ Linux |
```

Bc command

```
MKDIR(1)                               User Commands

NAME
    mkdir - make directories

SYNOPSIS
    mkdir [OPTION] ... DIRECTORY ...

DESCRIPTION
    Create the DIRECTORY(ies), if they do not already exist.

    Mandatory arguments to long options are mandatory for short options too.

    -m, --mode=MODE
        set file mode (as in chmod), not a=rwx - umask

    -p, --parents
        no error if existing, make parent directories as needed

    -v, --verbose
        print a message for each created directory

    -Z      set SELinux security context of each created directory to the default type

    --context[=CTX]
        like -Z, or if CTX is specified then set the SELinux or SMACK security context to CTX

    --help display this help and exit

    --version
        output version information and exit

AUTHOR
```

Man command

```
→ Linux calendar
Apr 01 Yourdon, Inc. founded, 1974 (It figures.)
Apr 01 People of superb intelligence, savoir-faire, etc. born this day.
Apr 01 Youth Day in Benin
Apr 01 Sergei Rachmaninow is born in Oneg, Russia, 1873
Apr 01 Ben Collins became Debian Project Leader, 2001
Apr 01 Primera misa en territorio argentino, 1520
Apr 01 World fair in Bruxelles : 45,000,000 of visitors, 1958
Apr 01 1 april
Apr 01 Matthew Jacob <mjacobs@FreeBSD.org> born in San Francisco, California, United States, 1958
Apr 01 Alexander V. Chernikov <alexifar@FreeBSD.org> born in Moscow, Russian Federation, 1984
Apr 01 Bill Fenner <fenner@FreeBSD.org> born in Bellefonte, Pennsylvania, United States, 1971
Apr 01 Peter Edwards <peadar@FreeBSD.org> born in Dublin, Ireland, 1973
Apr 01 Votre fichier calendar est corrompu.
Apr 01 N'oubliez pas les Hugues !
Apr 01 Avril entrant,
    Coucou chantant,
    Sonnailles tintant.
Apr 01 Organisierter Boykott jüdischer Geschäfte, 1933
Apr 01 Sergej Rachmaninow in Oneg geboren, 1873
Apr 01 Hugo
Apr 01 День специалиста по ядерному обеспечению
Apr 01 День космических войск
Apr 01 Новогодние каникулы
Apr 01 День народного единства
Apr 01 День освобождения Москвы силами народного ополчения под руководством Кузьмы Минина и Дмитрия Пожарского от польских интервентов (1612 год)
Apr 01 Введение во храм Пресвятой Богородицы
Apr 01 Civil Service Day ( จันทร์ที่ ๒๕ เมษายน ) in Thailand
Apr 01 April Fool's Day.
```

calender command

```
→ 194009 date
Fri Mar 25 14:47:38 IST 2022
→ 194009 |
```

```
→ Linux date +%d  
01  
→ Linux date +%m  
04  
→ Linux date +%Y  
2022  
→ Linux |
```

```
→ 194009 touch toCopy.txt  
→ 194009 ls -la  
total 0  
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:48 [REDACTED]  
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:23 [REDACTED]  
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:40 1.txt  
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:40 My.txt  
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:42 data.csv  
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:43 data2.csv  
-rwxrwxrwx 1 samtech2543 samtech2543 55 Mar 25 14:35 mytext1.txt  
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:48 toCopy.txt  
→ 194009 cp toCopy.txt ..  
→ 194009 cd ..  
→ Linux ls -la  
total 0  
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:48 [REDACTED]  
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:23 [REDACTED]  
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:48 [REDACTED]  
-rwxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:48 toCopy.txt  
→ Linux |
```

```
./Linux/194009  
x + v  
→ 194009 wc mytext1.txt  
4 8 55 mytext1.txt  
→ 194009 |
```

```
ester-6/Linux  
x + v  
- □ ×  
+ Linux vi 194009.txt  
+ Linux wc 194009.txt  
5 28 147 194009.txt  
+ Linux wc -l 194009.txt  
5 194009.txt  
+ Linux wc -c 194009.txt  
147 194009.txt  
+ Linux wc -w 194009.txt  
28 194009.txt  
+ Linux |
```

```
→ 194009 pwd  
/mnt/d/Best_Projects/Semester-6/Linux/194009  
→ 194009 |
```

Password command

```
→ Linux passwd  
Changing password for samtech2543.  
Current password:  
New password:  
Retype new password:  
passwd: password updated successfully  
→ Linux sudo su  
[sudo] password for samtech2543:  
root@DESKTOP-7K7PU8Q:/mnt/d/Best_Projects/Semester-6/Linux#
```

```
555 ls *.txt  
556 clear  
557 ls -la  
558 ls [9]*  
559 clear  
560 ls -la  
561 ls [z]*  
562 cls  
563 clear  
564 ls -la  
565 cat --help  
566 clear  
567 cat --help  
568 clear  
569 date  
570 clear  
571 touch toCopy.txt  
572 ls -la  
573 cp toCopy.txt ..  
574 cd ..  
575 ls -la  
576 cd 194009  
577 clear  
578 wc --help  
579 clear  
580 wc mytext1.txt  
581 clear  
582 pwd --help  
583 pwd  
584 clear  
585 pwd  
586 history  
587 clear  
→ 194009 |
```

```
→ 194009 cmp 1.txt My.txt
1.txt My.txt differ: byte 1, line 1
→ 194009 |
```



```
./Linux/194009
→ 194009 zsh --version
zsh 5.8 (x86_64-ubuntu-linux-gnu)
→ 194009 |
```



```
./Linux/194009
→ 194009 exit
zsh: you have suspended jobs.
→ 194009 |
```

Cmp command

```
./Linux/194009
+ Linux ls
194009 'Linux Practical-2.docx' Linux Practical-1.pdf' Linux.docx Sarvesh.txt toCopy.txt vi.docx
+ Linux cd 194009
+ 194009 ls
194009 data.csv data2.csv for_vி.txt
+ 194009 cd ..
+ Linux cp toCopy.txt 194009
+ Linux cd 194009
+ 194009 ls
194009 data.csv data2.csv for_vி.txt toCopy.txt
→ 194009 |
```

```
→ Semester-6 mkdir 194009
→ Semester-6 ls -la
total 3396
drwxrwxrwx 1 samtech2543 samtech2543      512 Mar 25 14:22 Linux
drwxrwxrwx 1 samtech2543 samtech2543      512 Mar 24 00:17 Java
drwxrwxrwx 1 samtech2543 samtech2543      512 Mar 25 14:22 Python
drwxrwxrwx 1 samtech2543 samtech2543      512 Mar 15 01:43 Linux
drwxrwxrwx 1 samtech2543 samtech2543      512 Mar 25 14:18 Java
drwxrwxrwx 1 samtech2543 samtech2543      512 Mar 11 01:30 Python
drwxrwxrwx 1 samtech2543 samtech2543      512 Mar 23 01:44 Syllabus.pdf
-rwxrwxrwx 1 samtech2543 samtech2543 3477413 Sep 24 2020 Syllabus.pdf
→ Semester-6
```

Mkdir command

```
→ Semester-6 mv 194009 Linux
→ Semester-6 ls -la
total 3396
drwxrwxrwx 1 samtech2543 samtech2543      512 Mar 25 14:23 Linux
drwxrwxrwx 1 samtech2543 samtech2543      512 Mar 24 00:17 Java
drwxrwxrwx 1 samtech2543 samtech2543      512 Mar 15 01:43 Python
drwxrwxrwx 1 samtech2543 samtech2543      512 Mar 25 14:23 Linux
drwxrwxrwx 1 samtech2543 samtech2543      512 Mar 11 01:30 Java
drwxrwxrwx 1 samtech2543 samtech2543      512 Mar 23 01:44 Python
-rwxrwxrwx 1 samtech2543 samtech2543 3477413 Sep 24 2020 Syllabus.pdf
→ Semester-6 cd Linux
→ Linux ls -la
total 0
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:23 194009
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:23 194009
drwxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:22 194009
→ Linux |
```

```
194009 × + ▾
194009 mkdir Hello
194009 ls
txt 194009 My.txt data.csv data2.csv for_v1.txt mytext1.txt toCopy.txt vi.docx vi_demo.txt
194009 ls -d
194009 ls -f
.demo_v1.txt.swo .vi_demo.txt.sw 1.txt data2.csv Hello mytext1.txt vi.docx
.demo_v1.txt.swp .vi_demo.txt.swp data.csv for_v1.txt My.txt toCopy.txt vi_demo.txt
194009 ls -la
total 688
wxrwxrwx 1 samtech2543 samtech2543 512 Apr 1 14:13 Hello
wxrwxrwx 1 samtech2543 samtech2543 512 Mar 25 14:48 mytext1.txt
wxrwxrwx 1 samtech2543 samtech2543 4096 Mar 29 14:18 .demo_v1.txt.sw
wxrwxrwx 1 samtech2543 samtech2543 12288 Mar 29 14:17 .demo_v1.txt.swp
wxrwxrwx 1 samtech2543 samtech2543 12288 Mar 29 15:23 .vi_demo.txt.sw
wxrwxrwx 1 samtech2543 samtech2543 12288 Mar 29 15:10 .vi_demo.txt.swp
wxrwxrwx 1 samtech2543 samtech2543 19 Mar 25 15:09 1.txt
wxrwxrwx 1 samtech2543 samtech2543 512 Apr 1 14:13 194009
wxrwxrwx 1 samtech2543 samtech2543 183 Mar 29 14:55 My.txt
wxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:42 data.csv
wxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:43 data2.csv
wxrwxrwx 1 samtech2543 samtech2543 1030 Mar 29 14:50 for_v1.txt
wxrwxrwx 1 samtech2543 samtech2543 55 Mar 25 14:35 mytext1.txt
wxrwxrwx 1 samtech2543 samtech2543 0 Mar 25 14:48 toCopy.txt
wxrwxrwx 1 samtech2543 samtech2543 654325 Mar 29 15:22 vi.docx
wxrwxrwx 1 samtech2543 samtech2543 1032 Mar 29 15:21 vi_demo.txt
194009 |
```

```
→ 194009 ls [0-9]*
1.txt
→ 194009 |
```

WILDCARD COMMAND

```
The Visual Editor is the primary editor used on Unix was the line editor. User was able to see/edit only one line of text at a time. The Vi editor is not a text formatter. We cannot set margins. We also cannot center the headings.

There are three modes of Vi Editor:
  1.)Command Mode
  2.)Insert Mode
  3.)Line Mode

Command Mode:
By default we are in the Command mode, in this most letters, or short sequences of letters that you type will be interpreted as commands, without explicitly pressing Enter. To navigate to Command Mode, press "Esc" Key.

Insert Mode:
To navigate to Insert Mode, press "i" or "a" key.
And to go back to Command Mode press "Esc".

Line Mode:
We use Line Mode from Command Mod, type a ":" (colon). The cursor moves to the bottom of screen, by a colon prompt.
Type a line mode command and then press "Enter".

Commands in vi:
1.) To open file in vi.
       vi filename
2.) Saving file in vi.
       :wq (In Command Mode)
3.) Quit without changes:
       :q!
4.) Writing the content into another file.
       :w!
```

-- INSERT -- 34,1 Bot

Creating a file in vi editor

```
The Visual Editor is the primary editor used on Unix was the line editor. User was able to see/edit only one line of text at a time. The Vi editor is not a text formatter. We cannot set margins. We also cannot center the headings.

There are three modes of Vi Editor:
  1.)Command Mode
  2.)Insert Mode
  3.)Line Mode

Command Mode:
By default we are in the Command mode, in this most letters, or short sequences of letters that you type will be interpreted as commands, without explicitly pressing Enter. To navigate to Command Mode, press "Esc" Key.

Insert Mode:
To navigate to Insert Mode, press "i" or "a" key.
And to go back to Command Mode press "Esc".

Line Mode:
We use Line Mode from Command Mod, type a ":" (colon). The cursor moves to the bottom of screen, by a colon prompt.
Type a line mode command and then press "Enter".

Commands in vi:-
1.) To open file in vi.
       vi filename
2.) Saving file in vi.
       :wq (In Command Mode)
3.) Quit without changes:
       :q!
4.) Writing the content into another file.
       :w!
```

:wq!

```

The Visual Editor is the primary editor used on Unix was the line editor. User was able to see/edit only one line of text at a time.
+ 194009 vi vi_demo.txt
+ 194009 batcat vi_demo.txt

File: vi_demo.txt

1
2
3 The Visual Editor is the primary editor used on Unix was the line editor. User was able to see/edit only one line of text at
4 a time.
5 The Vi editor is not a text formatter. We cannot set margins. We also cannot center the headings.
6
7 There are three modes of Vi Editor:
8   1.)Command Mode
9   2.)Insert Mode
10  3.)Line Mode
11
12 Command Mode:
13 By default we are in the Command mode, in this most letters, or short sequences of letters that you type will be interpreted
14 as commands, without explicitly pressing Enter. To navigate to Command Mode, press "Esc" Key.
15
16 Insert Mode:
17 To navigate to Insert Mode, press "i" or "a" key.
18 And to go back to Command Mode press "Esc".
19
20 Line Mode:
21 We use Line Mode from Command Mod, type a ":" (colon). The cursor moves to the bottom of screen, by a colon prompt.
22 Type a line mode command and then press "Enter".
23
24 Commands in vi:- 
25
26 1.) To open file in vi.
    vi filename

```

```

The Visual Editor is the primary editor used on Unix was the line editor. User was able to see/edit only one line of text at a time.
The Vi editor is not a text formatter. We cannot set margins. We also cannot center the headings.

There are three modes of Vi Editor:
  1.)Command Mode
  2.)Insert Mode
  3.)Line Mode

Command Mode:
By default we are in the Command mode, in this most letters, or short sequences of letters that you type will be interpreted as comma
nds, without explicitly pressing Enter. To navigate to Command Mode, press "Esc" Key.

Insert Mode:
To navigate to Insert Mode, press "i" or "a" key.
And to go back to Command Mode press "Esc".

Line Mode:
We use Line Mode from Command Mod, type a ":" (colon). The cursor moves to the bottom of screen, by a colon prompt.
Type a line mode command and then press "Enter".

Commands in vi:-
1.) To open file in vi.
    vi filename
2.) Saving file in vi.
    :wq (In Command Mode)
3.) Quit without changes:
    :q!
4.) Writing the content into another file.
    :w!

:w! for_vi.txt

```

```

Vi Editor!

The Visual Editor is the primary editor used on Unix was the line editor. User was able to see/edit only one line of text at
a time.
The Vi editor is not a text formatter. We cannot set margins. We also cannot center the headings.

There are three modes of Vi Editor:
  1.)Command Mode
  2.)Insert Mode
  3.)Line Mode

Command Mode:
By default we are in the Command mode, in this most letters, or short sequences of letters that you type will be interpreted
as commands, without explicitly pressing Enter. To navigate to Command Mode, press "Esc" Key.

Insert Mode:
To navigate to Insert Mode, press "i" or "a" key.
And to go back to Command Mode press "Esc".

Line Mode:
We use Line Mode from Command Mod, type a ":" (colon). The cursor moves to the bottom of screen, by a colon prompt.
Type a line mode command and then press "Enter".

Commands in vi:-
1.) To open file in vi.
    vi filename
2.) Saving file in vi.
    :wq (In Command Mode)

```

:w! command to write the above content to particular file

```

194009 batcat for_vi.txt
File: for_vi.txt

1 The vi Editor is the primary editor used on Unix was the line editor, User was able to view/edit only one line at a time. The vi Editor is no a text formatter. We cannot enter the margins and also cannot enter the text as center heading.
2
3 There are three modes in vi editor:
4   1.) Command Mode
5   2.) Insert Mode
6   3.) Line Mode
7
8 Command Mode:
9 By default mode were we can execute the commands to manipulate through the text.
10
11 Insert Mode:
12 In this mode we can enter the text to the file.
13
14 Line Mode:
15 We use Line Mode from Command Mode, type colon (:). The Cursor moves to the bottom of the prompt. Type line mode command and press "Enter".
16
17
194009 |

```

:q! – Quit file without saving

```

The Visual Editor is the primary editor used on Unix was the line editor. User was able to see/edit only one line of text at a time.
The Vi editor is not a text formatter. We cannot set margins. We also cannot center the headings.

There are three modes of Vi Editor:
  1.)Command Mode
  2.)Insert Mode
  3.)Line Mode

Command Mode:
By default we are in the Command mode, in this most letters, or short sequences of letters that you type will be interpreted as commands, without explicitly pressing Enter. To navigate to Command Mode, press "Esc" Key.

Insert Mode:
To navigate to Insert Mode, press "i" or "a" key.
And to go back to Command Mode press "Esc".

Line Mode:
We use Line Mode from Command Mod, type a ":" (colon). The cursor moves to the bottom of screen, by a colon prompt.
Type a line mode command and then press "Enter".

Commands in vi:-
1.) To open file in vi.
   vi filename
2.) Saving file in vi.
   :wq (In Command Mode)
3.) Quit without changes:
   :q!
4.) Writing the content into another file.

```

Search text in vi editor

```

The vi Editor is the primary editor used on Unix was the line editor, User was able to view/edit only one line at a time. The vi Editor is no a text formatter. We cannot enter the margins and also cannot enter the text as center heading.

There are three modes in vi editor:
  1.) Command Mode
  2.) Insert Mode
  3.) Line Mode

oCommand Mode:
By default mode were we can execute the commands to manipulate through the text.

```

Transposing two characters

:set showmode command, shows us the Mode at bottom of prompt

The vi Editor is the primary editor used on Unix was the line editor, User was able to view/edit only one line at a time. The vi Editor is no a text formatter. We cannot enter the margins and also cannot enter the text as center heading.

There are three modes in vi editor:

- 1.) Command Mode
- 2.) Insert Mode
- 3.) Line Mode

Command Mode:
By default mode were we can execute the commands to manipulate through the text.

Insert Mode:
In this mode we can enter the text to the file.

Line Mode:
We use Line Mode from Command Mode, type colon (:). The Cursor moves to the bottom of the prompt. Type line mode command and press "Enter".

~
~
~
~
~
~
~
~
~

-- INSERT --

:set no showmode Command, does not show the mode of vi editor

```
The vi Editor is the primary editor used on Unix was the line editor, User was able to view/edit only one line at a time. The vi Editor is no a text formatter. We cannot enter the margins and also cannot enter the text as center heading.

There are three modes in vi editor:
    1.) Command Mode
    2.) Insert Mode
    3.) Line Mode

Command Mode:
By default mode were we can execute the commands to manipulate through the text.

Insert Mode:
In this mode we can enter the text to the file.

Line Mode:
We use Line Mode from Command Mode, type colon (:). The Cursor moves to the bottom of the prompt. Type line mode command and press "Enter".
~  
~  
~  
~  
~  
~  
~  
~  
~  
~  
:set ic
```

3,12 All

Set ic – for ignoring case

```
The vi Editor is the primary editor used on Unix was the line editor, User was able to view/edit only one line at a time. The vi Editor is no a text formatter. We cannot enter the margins and also cannot enter the text as center heading.

There are three modes in vi editor:
    1.) Command Mode
    2.) Insert Mode
    3.) Line Mode

Command Mode:
By default mode were we can execute the commands to manipulate through the text.

Insert Mode:
In this mode we can enter the text to the file.

Line Mode:
We use Line Mode from Command Mode, type colon (:). The Cursor moves to the bottom of the prompt. Type line mode command and press "Enter".
~  
~  
~  
~  
~  
~  
~  
~
```

:set noic – For setting mode as Case sensitive

File: mylist.lst

1	10	Sarvesh Mankar	DCP	98
2	20	Anand Mankar	DCP	96
3	30	Om Mankar	DEE	95
4	40	Shyam Saksena	DME	94
5	50	J.B. Saksena	DCE	96

```
[sarvesh@fedora 194009]$ awk -F " |" '/DCP/' mylist.lst
10 | Sarvesh Mankar | DCP | 98
20 | Anand Mankar | DCP | 96
```

File: mylist.lst

1	10	Sarvesh Mankar	DCP	98
2	20	Anand Mankar	DCP	96
3	30	Om Mankar	DEE	95
4	40	Shyam Saksena	DME	94
5	50	J.B. Saksena	DCE	96

```
[sarvesh@fedora 194009]$ awk -F " |" '{print $1 $2 $3 $4}' mylist.lst
10 Sarvesh Mankar DCP 98
20 Anand Mankar DCP 96
30 Om Mankar DEE 95
40 Shyam Saksena DME 94
50 J.B. Saksena DCE 96
[sarvesh@fedora 194009]$ awk -F " |" '{printf "%5d %-20s %5d %5d\n", $1, $2, $3, $4}' mylist.lst
10 Sarvesh Mankar 0 98
20 Anand Mankar 0 96
30 Om Mankar 0 95
40 Shyam Saksena 0 94
50 J.B. Saksena 0 96
```

```
[sarvesh@fedora 194009]$ ls -l
total 0
-rw-rw-r--. 1 sarvesh sarvesh 0 Apr 28 20:53 myfile.txt
[sarvesh@fedora 194009]$ chmod u+x myfile.txt
[sarvesh@fedora 194009]$ ls -l
total 0
-rwxrwx-r--. 1 sarvesh sarvesh 0 Apr 28 20:53 myfile.txt
[sarvesh@fedora 194009]$
```

Chmod command

```
[sarvesh@fedora 194009]$ ls -l
total 0
-rwxrwx-r--. 1 sarvesh sarvesh 0 Apr 28 20:35 myfile.txt
[sarvesh@fedora 194009]$ chmod g-w myfile.txt
[sarvesh@fedora 194009]$ ls -l
total 0
-rwxr--r--. 1 sarvesh sarvesh 0 Apr 28 20:35 myfile.txt
[sarvesh@fedora 194009]$
```

```
[sarvesh@fedora 194009]$ ls -l
total 0
-rwxr-xr-x. 1 sarvesh sarvesh 0 Apr 28 20:35 myfile.txt
[sarvesh@fedora 194009]$ chmod 711 myfile.txt
[sarvesh@fedora 194009]$ ls -l
total 0
-rwx--x--x. 1 sarvesh sarvesh 0 Apr 28 20:35 myfile.txt
[sarvesh@fedora 194009]$ █
```

```
[root@fedora home]# ls
myUser1  sarvesh  test
[root@fedora home]# useradd -u 1111 MyUser2
[root@fedora home]# ls
myUser1  MyUser2  sarvesh  test
[root@fedora home]# █
```

Create and manage a user

```
[root@fedora home]# usermod -e 2022-5-27 MyUser2
[root@fedora home]# id MyUser2
uid=1111(MyUser2)  gid=1111(MyUser2)  groups=1111(MyUser2)
[root@fedora home]# █
```

Updating a user

```
[root@fedora sarvesh]# getent group█
```

Adding a group

```
pipewire:x:989:  
geoclue:x:988:  
brlapi:x:987:  
chrony:x:986:  
saslauth:x:76:  
radvd:x:75:  
rpc:x:32:  
libvirt:x:985:  
openvpn:x:984:  
nm-openvpn:x:983:  
colord:x:982:  
rpcuser:x:29:  
abrt:x:173:  
flatpak:x:981:  
gdm:x:42:  
gnome-initial-setup:x:980:  
vboxsf:x:979:  
sshd:x:74:  
power:x:978:  
tcpdump:x:72:  
slocate:x:21:  
sarvesh:x:1000:  
myUser1:x:1001:  
MyUser2:x:1111:  
myGroup1:x:1112:  
MyGroup:x:1113:
```

```
[sarvesh@fedora ~]$ df  
Filesystem      1K-blocks    Used Available Use% Mounted on  
devtmpfs          4096       0     4096   0% /dev  
tmpfs            1989008      0   1989008   0% /dev/shm  
tmpfs            795604    1856   793748   1% /run  
/dev/nvme0n1p2  51379200  4879072  46188608  10% /  
tmpfs            1989008      56   1988952   1% /tmp  
/dev/nvme0n1p2  51379200  4879072  46188608  10% /home  
/dev/nvme0n1p1    996780   270620   657348  30% /boot  
tmpfs            397800     120   397680   1% /run/user/1000  
[sarvesh@fedora ~]$
```

Monitor disk usage

Df command

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
proc	0	0	0	-	/proc
sysfs	0	0	0	-	/sys
devtmpfs	4096	0	4096	0%	/dev
securityfs	0	0	0	-	/sys/kernel/security
tmpfs	1989008	0	1989008	0%	/dev/shm
devpts	0	0	0	-	/dev/pts
tmpfs	795604	1856	793748	1%	/run
cgroup2	0	0	0	-	/sys/fs/cgroup
pstore	0	0	0	-	/sys/fs/pstore
bpf	0	0	0	-	/sys/fs/bpf
/dev/nvme0n1p2	51379200	4879792	46187888	10%	/
selinuxfs	0	0	0	-	/sys/fs/selinux
systemd-1	0	0	0	-	/proc/sys/fs/binfmt_misc
hugetlbfs	0	0	0	-	/dev/hugepages
mqueue	0	0	0	-	/dev/mqueue
debugfs	0	0	0	-	/sys/kernel/debug
tracefs	0	0	0	-	/sys/kernel/tracing
fusectl	0	0	0	-	/sys/fs/fuse/connections
configfs	0	0	0	-	/sys/kernel/config
vmware-vmblock	0	0	0	-	/run/vmblock-fuse
tmpfs	1989008	56	1988952	1%	/tmp
/dev/nvme0n1p2	51379200	4879792	46187888	10%	/home
/dev/nvme0n1p1	996780	270620	657348	30%	/boot
sunrpc	0	0	0	-	/var/lib/nfs/rpc_pipefs
tmpfs	397800	120	397680	1%	/run/user/1000
gvfsd-fuse	0	0	0	-	/run/user/1000/gvfs

```
.
./folder1
./folder1/f1
./folder1/f2
./folder1/f3
./folder3
./folder2
./folder2/f4
./folder2/f5
[sarvesh@fedora Chap6]$ find folder1
folder1
folder1/f1
folder1/f2
folder1/f3
```

Find command

```
2+0 records in
2+0 records out
1024 bytes (1.0 kB, 1.0 KiB) copied, 0.000194319 s, 5.3 MB/s
```

Dd command

	File: Hello.c
1	#include<stdio.h>
2	int main(){
3	printf("Hello! My name is Sarvesh Anand Mankar!\n");
4	return 0;
5	}
[root@fedora 194009]# ls -l a.out -rwxr-xr-x. 1 root root 24936 May 24 00:53 a.out [root@fedora 194009]# ./a.out Hello! My name is Sarvesh Anand Mankar![root@fedora 194009]# █	

Gcc command

```
[root@fedora 194009]# gcc Hello.c -o Hello  
[root@fedora 194009]# ls -l Hello  
-rwxr-xr-x. 1 root root 24936 May 24 00:57 Hello  
[root@fedora 194009]# █
```

```
root@tryit-exotic:~# ls
In  p11  p12  p13  p14  p15
root@tryit-exotic:~# cat > p11
Hello! in p11!
root@tryit-exotic:~# cat p11
Hello! in p11!
root@tryit-exotic:~# ls -la | cat > p22
root@tryit-exotic:~# cat p22
total 4
drwx----- 1 root root  54 Jan 13 00:50 .
drwxr-xr-x 1 root root 172 Jan 13 00:46 ..
drwxr-x--- 1 root root   6 Jan 13 00:46 .config
-rw-r--r-- 1 root root   0 Jan 13 00:48 In
-rw-r--r-- 1 root root  15 Jan 13 00:49 p11
-rw-r--r-- 1 root root   0 Jan 13 00:46 p12
-rw-r--r-- 1 root root   0 Jan 13 00:46 p13
-rw-r--r-- 1 root root   0 Jan 13 00:46 p14
-rw-r--r-- 1 root root   0 Jan 13 00:46 p15
-rw-r--r-- 1 root root   0 Jan 13 00:50 p22
```

Redirection command

```
root@tryit-exotic:~# ls -la | wc | cat > p2
root@tryit-exotic:~# cat p2
      12      101      491
root@tryit-exotic:~# ls | wc | cat >> p2
root@tryit-exotic:~# cat p2
      12      101      491
      8       8       30
root@tryit-exotic:~#
```

```
root@tryit-exotic:~# ls
In  p11  p12  p13  p14  p15  p2  p22
root@tryit-exotic:~# wc -c < p11
15
root@tryit-exotic:~# cat p11
Hello! in p11!
```

```
root@tryit-exotic:~# cat p22
total 4
drwx----- 1 root root 54 Jan 13 00:50 .
drwxr-xr-x 1 root root 172 Jan 13 00:46 ..
drwxr-x--- 1 root root 6 Jan 13 00:46 .config
-rw-r--r-- 1 root root 0 Jan 13 00:48 In
-rw-r--r-- 1 root root 15 Jan 13 00:49 p11
-rw-r--r-- 1 root root 0 Jan 13 00:46 p12
-rw-r--r-- 1 root root 0 Jan 13 00:46 p13
-rw-r--r-- 1 root root 0 Jan 13 00:46 p14
-rw-r--r-- 1 root root 0 Jan 13 00:46 p15
-rw-r--r-- 1 root root 0 Jan 13 00:50 p22
root@tryit-exotic:~# grep -i "p22" p22
-rw-r--r-- 1 root root 0 Jan 13 00:50 p22
```

Grep command

```
root@tryit-exotic:~# cat p22
total 4
drwx----- 1 root root 54 Jan 13 00:50 .
drwxr-xr-x 1 root root 172 Jan 13 00:46 ..
drwxr-x--- 1 root root 6 Jan 13 00:46 .config
-rw-r--r-- 1 root root 0 Jan 13 00:48 In
-rw-r--r-- 1 root root 15 Jan 13 00:49 p11
-rw-r--r-- 1 root root 0 Jan 13 00:46 p12
-rw-r--r-- 1 root root 0 Jan 13 00:46 p13
-rw-r--r-- 1 root root 0 Jan 13 00:46 p14
-rw-r--r-- 1 root root 0 Jan 13 00:46 p15
-rw-r--r-- 1 root root 0 Jan 13 00:50 p22
root@tryit-exotic:~# grep -c "00:46" p22
6
```

```
root@tryit-exotic:~# grep -i "rOOT" p22
drwx----- 1 root root 54 Jan 13 00:50 .
drwxr-xr-x 1 root root 172 Jan 13 00:46 ..
drwxr-x--- 1 root root 6 Jan 13 00:46 .config
-rw-r--r-- 1 root root 0 Jan 13 00:48 In
-rw-r--r-- 1 root root 15 Jan 13 00:49 p11
-rw-r--r-- 1 root root 0 Jan 13 00:46 p12
-rw-r--r-- 1 root root 0 Jan 13 00:46 p13
-rw-r--r-- 1 root root 0 Jan 13 00:46 p14
-rw-r--r-- 1 root root 0 Jan 13 00:46 p15
-rw-r--r-- 1 root root 0 Jan 13 00:50 p22
```