

```
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ mkdir dir1
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ mkdir dir2 dir3
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ mkdir -p /tmp/dir1/dir2
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ mv dir1 dir2
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ pwd
/home/viraj
```

```
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ rm -rf dir1
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ rm -rd dir2 dir3
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ mkdir dir1
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ rmdir dir1
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ touch -t 0724121010 add.c
touch: invalid date format '0724121010'
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ touch -t 0712250000 add.c
```

```
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ tree
Command 'tree' not found, but can be installed with:
sudo snap install tree # version 1.8.0+pkg-3fd6, or
sudo apt install tree # version 2.0.2-1
See 'snap info tree' for additional versions.
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ sudo install tree
[sudo] password for viraj:
install: missing destination file operand after 'tree'
Try 'install --help' for more information.
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ find -name "hello.c"
./hello.c
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ find iname "HELLO.c"
find: 'iname': No such file or directory
find: 'HELLO.c': No such file or directory
```

```

viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ ls
3  add.c  a.out  assign1  Assignment4  Desktop  Documents  Downloads  Music  Pictures  PPL  Public  snap  Templates  Videos  viraj.c
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ file /assign1 -perm 644
Usage: file [-bCdEhikLlNnprsSvzZ0] [--apple] [--extension] [--mime-encoding]
        [--mime-type] [-e <testname>] [-F <separator>] [-f <namefile>]
        [-m <magicfiles>] [-P <parameter=value>] [--exclude-quiet]
        <file> ...
        file -C [-m <magicfiles>]
        file [--help]
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ find /assign1 -perm -644
find: '/assign1': No such file or directory
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ file /assign1 -perm -644
file: invalid option -- '6'
file: invalid option -- '4'
file: invalid option -- '4'
Usage: file [-bCdEhikLlNnprsSvzZ0] [--apple] [--extension] [--mime-encoding]
        [--mime-type] [-e <testname>] [-F <separator>] [-f <namefile>]
        [-m <magicfiles>] [-P <parameter=value>] [--exclude-quiet]
        <file> ...
        file -C [-m <magicfiles>]
        file [--help]
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ wc -ln hello.c
wc: invalid option -- 'n'
Try 'wc --help' for more information.
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ wc l hello.c
wc: l: No such file or directory
wc: hello.c: No such file or directory
0 0 0 total

```

```

viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ wc -l hello.c
wc: hello.c: No such file or directory
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ wc -l hello.c
0 hello.c
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ wc -w
^C
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ wc -w hello.c
0 hello.c
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ wc -c hello.c
0 hello.c
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ wc -m hello.c
0 hello.c
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ wc -l hello.c
0 hello.c

```

```
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ find / -size 5c
find: '/lost+found': Permission denied
/home/viraj/.config/user-dirs.locale
/home/viraj/snap/snapd-desktop-integration/49/.config/user-dirs.locale
/home/viraj/snap/snapd-desktop-integration/43/.config/user-dirs.locale
/home/viraj/snap/firefox/2277/.config/user-dirs.locale
/home/viraj/snap/firefox/2263/.config/user-dirs.locale
/home/viraj/.cache/tracker3/files/first-index.txt
/home/viraj/.cache/tracker3/files/locale-for-miner-apps.txt
find: '/run/wpa_supplicant': Permission denied
find: '/run/gdm3': Permission denied
find: '/run/udisks2': Permission denied
find: '/run/cups/certs': Permission denied
/run/user/1000/pulse/pid
find: '/run/user/1000/systemd/inaccessible/dir': Permission denied
find: '/run/sudo': Permission denied
find: '/run/speech-dispatcher': Permission denied
find: '/run/openvpn-server': Permission denied
find: '/run/openvpn-client': Permission denied
find: '/run/credentials/systemd-sysusers.service': Permission denied
find: '/run/systemd/resolve/netif': Permission denied
find: '/run/systemd/propagate': Permission denied
find: '/run/systemd/unit-root': Permission denied
find: '/run/systemd/inaccessible/dir': Permission denied
/run/udev/watch/99
/run/udev/watch/91
/run/udev/watch/73
/run/udev/watch/72
/run/udev/watch/70
find: '/run/initramfs': Permission denied
find: '/sys/kernel/tracing': Permission denied
find: '/sys/kernel/debug': Permission denied
find: '/sys/fs/pstore': Permission denied
find: '/sys/fs/bpf': Permission denied
find: '/sys/fs/fuse/connections/271581189': Permission denied
/sys/firmware/efi/efivars/MemoryOverwriteRequestControl-e20939be-32d4-41be-a150-897f85d49829
/sys/firmware/efi/efivars/MemoryOverwriteRequestControlLock-bb983ccf-151d-40e1-a07b-4a17be168292
```

```
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ find / -mmin 1
find: '/lost+found': Permission denied
/home/viraj/.config/google-chrome/GrShaderCache/data_0
/home/viraj/.config/google-chrome/GrShaderCache/data_3
/home/viraj/.config/google-chrome/GrShaderCache/data_1
/home/viraj/.config/google-chrome/GrShaderCache/index
/home/viraj/.config/google-chrome/BrowserMetrics/BrowserMetrics-63CB9A31-97D.pma
/home/viraj/.config/google-chrome/Default
/home/viraj/.config/google-chrome/Default/History-journal
/home/viraj/.config/google-chrome/Default/Sessions/Session_13318761268983222
/home/viraj/.config/google-chrome/Default/Network Persistent State
/home/viraj/.config/google-chrome/Default/History
/home/viraj/.config/google-chrome/Default/IndexedDB/https_www.youtube.com_0.indexeddb.leveldb/000013.log
/home/viraj/.config/google-chrome/Default/IndexedDB/https_www.youtube.com_0.indexeddb.blob/3/00
/home/viraj/.config/google-chrome/Default/Local Storage/leveldb/000056.log
/home/viraj/.config/google-chrome/Default/shared_proto_db/000003.log
/home/viraj/.config/google-chrome/Default/Visited Links
/home/viraj/.config/google-chrome/Default/Session Storage/000010.log
/home/viraj/.config/google-chrome/Default/Reporting and NEL-journal
/home/viraj/.config/google-chrome/Default/Reporting and NEL
/home/viraj/.config/google-chrome/Default/Favicons
/home/viraj/.config/google-chrome/Default/Cookies-journal
/home/viraj/.config/google-chrome/Default/Favicons-journal
/home/viraj/.config/google-chrome/Default/WebStorage/QuotaManager
/home/viraj/.config/google-chrome/Default/WebStorage/QuotaManager-journal
/home/viraj/.config/google-chrome/Default/Cookies
/home/viraj/.local/share/gvfs-metadata
/home/viraj/.local/share/gvfs-metadata/uuid-CE9E88F49E88D67D-3956dbcc.log
/home/viraj/.local/share/gvfs-metadata/uuid-CE9E88F49E88D67D
/home/viraj/.local/share/gnome-shell
/home/viraj/.local/share/gnome-shell/application_state
/home/viraj/.cache/google-chrome/Default/Cache/Cache_Data
/home/viraj/.cache/google-chrome/Default/Cache/Cache_Data/39f383e1340c0971_0
/home/viraj/.cache/google-chrome/Default/Cache/Cache_Data/638d34a23ba44c5a_0
/home/viraj/.cache/google-chrome/Default/Cache/Cache_Data/4b095417841ffacd_0
/home/viraj/.cache/google-chrome/Default/Cache/Cache_Data/0d36c20eb82656ca_0
/home/viraj/.cache/google-chrome/Default/Cache/Cache_Data/76aca0db1ef4c387_0
```

```

viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ find / -size +700M
/media/viraj/Local Disk/Kedarnath/Videos/GH010349.MP4
/media/viraj/Local Disk/Lonavla/IMG_2977.MOV
/media/viraj/Local Disk/Lonavla/IMG_2980.MOV
/media/viraj/Local Disk/Lonavla/IMG_2983.MOV
find: '/lost+found': Permission denied
find: '/run/wpa_supplicant': Permission denied
find: '/run/gdm3': Permission denied
find: '/run/udisks2': Permission denied
find: '/run/cups/certs': Permission denied
find: '/run/user/1000/systemd/inaccessible/dir': Permission denied
find: '/run/sudo': Permission denied
find: '/run/speech-dispatcher': Permission denied
find: '/run/openvpn-server': Permission denied
find: '/run/openvpn-client': Permission denied
find: '/run/credentials/systemd-sysusers.service': Permission denied
find: '/run/systemd/resolve/netif': Permission denied
find: '/run/systemd/propagate': Permission denied
find: '/run/systemd/unit-root': Permission denied
find: '/run/systemd/inaccessible/dir': Permission denied
find: '/run/initramfs': Permission denied
find: '/sys/kernel/tracing': Permission denied
find: '/sys/kernel/debug': Permission denied
find: '/sys/fs/pstore': Permission denied
find: '/sys/fs/bpf': Permission denied
find: '/sys/fs/fuse/connections/271581189': Permission denied
find: '/var/cache/ldconfig': Permission denied
find: '/var/cache/apt/archives/partial': Permission denied
find: '/var/cache/cups': Permission denied
find: '/var/cache/private': Permission denied
find: '/var/cache/apparmor/e10c1cf9.0': Permission denied
find: '/var/cache/apparmor/c47eabf7.0': Permission denied
find: '/var/lib/snapd/cache': Permission denied
find: '/var/lib/snapd/cookie': Permission denied
find: '/var/lib/snapd/void': Permission denied
find: '/var/lib/openvpn/chroot': Permission denied
find: '/var/lib/apt/lists/partial': Permission denied

```

```

viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ ls -a
. 3 a.out Assignment4 .bash_logout .cache Desktop Downloads hello.c .local Pictures PPL Public .ssh
Templates .viminfo
.. add.c assign1 .bash_history .bashrc .config Documents .gnupg .lessht Music .pki .profile snap .sudo_as_admin_successful
Videos viraj.c
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ ls *[0-9]*
3:

assign1:
Assignment4:

```

```

viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ ls -f
.pki      .ssh      PPL       .config   .          Documents .local    hello.c   Public    ad
Pictures  assign1
.viminfo  Videos  .gnupg    .bash_history .sudo_as_admin_successful Templates Downloads ..         Assignment4 sn
.bash_logout .lessht

viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ ls
3  add.c  a.out  assign1  Assignment4  Desktop  Documents  Downloads  hello.c  Music  Pictures  PPL  Public  snap
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ ls -f
.pki      .ssh      PPL       .config   .          Documents .local    hello.c   Public    ad
Pictures  assign1
.viminfo  Videos  .gnupg    .bash_history .sudo_as_admin_successful Templates Downloads ..         Assignment4 sn
.bash_logout .lessht

viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ ls -l
total 72
drwxrwxr-x 2 viraj viraj  4096 Jan 21 07:05 3
-rw-rw-r-- 1 viraj viraj    0 Dec 25 2007 add.c
-rwxrwxr-x 1 viraj viraj 15960 Nov 30 00:23 a.out
drwxrwxr-x 2 viraj viraj  4096 Nov 20 17:51 assign1
drwxrwxr-x 2 viraj viraj  4096 Nov 30 12:30 Assignment4
drwxr-xr-x 2 viraj viraj  4096 Nov  3 05:27 Desktop
drwxr-xr-x 2 viraj viraj  4096 Nov  3 05:27 Documents
drwxr-xr-x 3 viraj viraj  4096 Jan 10 01:00 Downloads
-rw-rw-r-- 1 viraj viraj    0 Jan 21 13:45 hello.c
drwxr-xr-x 2 viraj viraj  4096 Nov  3 05:27 Music
drwxr-xr-x 3 viraj viraj  4096 Jan 21 07:08 Pictures
drwxrwxr-x 2 viraj viraj  4096 Nov 30 12:46 PPL
drwxr-xr-x 2 viraj viraj  4096 Nov  3 05:27 Public
drwx----- 4 viraj viraj  4096 Nov  3 05:42 snap
drwxr-xr-x 2 viraj viraj  4096 Nov  3 05:27 Templates
drwxr-xr-x 2 viraj viraj  4096 Nov  3 05:27 Videos
-rw-rw-r-- 1 viraj viraj    69 Nov 30 00:16 viraj.c

```

```

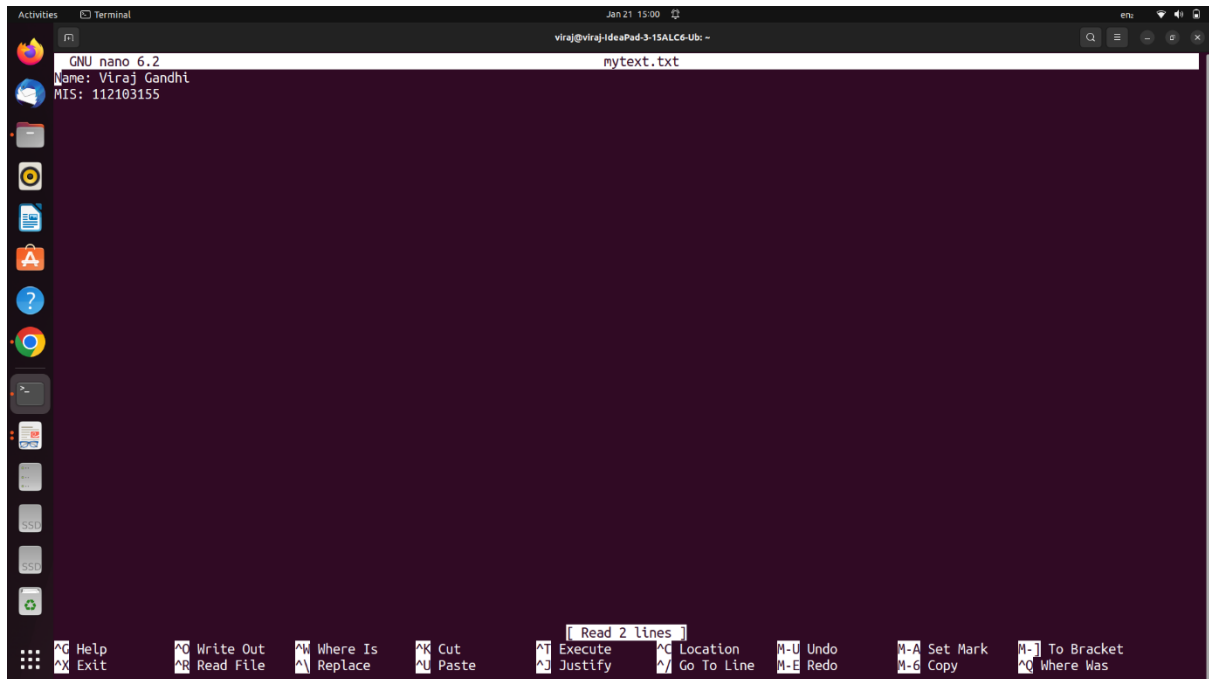
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ find / -size 50c
find: '/lost+found': Permission denied
/home/viraj/.config/google-chrome/AutofillStates/2020.11.2.164946/BQ
/home/viraj/snap/snapd-desktop-integration/49/.local/share/themes
/home/viraj/snap/snapd-desktop-integration/49/.themes
/home/viraj/snap/snapd-desktop-integration/43/.local/share/themes
/home/viraj/snap/snapd-desktop-integration/43/.themes
/home/viraj/snap/firefox/common/.mozilla/firefox/sjiihtsn.default/times.json
find: '/run/wpa_supplicant': Permission denied
find: '/run/gdm3': Permission denied
find: '/run/udisks2': Permission denied
find: '/run/cups/certs': Permission denied
/run/user/1000/systemd/generator.late/xdg-desktop-autostart.target.wants/app-org.gnome.DejaDup.Monitor@autostart.service
find: '/run/user/1000/systemd/inaccessible/dir': Permission denied
find: '/run/sudo': Permission denied
find: '/run/speech-dispatcher': Permission denied
find: '/run/openvpn-server': Permission denied
find: '/run/openvpn-client': Permission denied
find: '/run/credentials/systemd-sysusers.service': Permission denied
find: '/run/systemd/resolve/netif': Permission denied
find: '/run/systemd/propagate': Permission denied
find: '/run/systemd/unit-root': Permission denied
find: '/run/systemd/inaccessible/dir': Permission denied
/run/udev/data/n1
find: '/run/initramfs': Permission denied
find: '/sys/kernel/tracing': Permission denied
find: '/sys/kernel/debug': Permission denied
find: '/sys/fs/pstore': Permission denied
find: '/sys/fs/bpf': Permission denied
find: '/sys/fs/fuse/connections/271581189': Permission denied
find: '/var/cache/ldconfig': Permission denied
find: '/var/cache/apt/archives/partial': Permission denied
find: '/var/cache/cups': Permission denied
find: '/var/cache/private': Permission denied
find: '/var/cache/apparmor/e10c1cf9.0': Permission denied
find: '/var/cache/apparmor/c47eabf7.0': Permission denied
find: '/var/lib/snapd/cache': Permission denied

```

```
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ find / -type f -name "*.c"
/media/viraj/Local Disk/$RECYCLE.BIN/S-1-5-21-2718805910-2562005591-1974148762-1001/$I33GX9U.c
/media/viraj/Local Disk/$RECYCLE.BIN/S-1-5-21-2718805910-2562005591-1974148762-1001/$R33GX9U.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_16_BreakContinue.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/add.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/Assignment3/Q1.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/Assignment3/Q2.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/Assignment3/Q3.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/Assignment3/Q4.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/call.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_10_IfElse.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_11_SwitchCase.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_12_Loops.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_13_DoWhileLoop.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_14_WhileLoop.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_15_ForLoop.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_17_GoTo.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_18_TypeCasting.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_19_Functions.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_20_Ex1.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_21_Recursion.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_22_Conversions.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_23_Arrays.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_24_ExConversion.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_25_Ex3.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_26_Pointer.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_27_ArrayPointer.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_7_Operators.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_8_Ex1.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/CWH_9.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/main.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/Searching.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/size1.c
/media/viraj/Local Disk/Viraj Phone/C Tutorial/Sorting.c
/media/viraj/Local Disk/Viraj Phone/COEP/SY/SEM I/DSA/Assignment 1/112103155_Viraj Gandhi/Q1.c
/media/viraj/Local Disk/Viraj Phone/COEP/SY/SEM I/DSA/Assignment 1/112103155_Viraj Gandhi/Q2.c
/media/viraj/Local Disk/Viraj Phone/COEP/SY/SEM I/DSA/Assignment 1/112103155_Viraj Gandhi/Q3_1.c
```

```
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ echo "Viraj Gandhi"
Viraj Gandhi
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ touch mytext.txt
```

```
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ nano mytext.txt
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ cat mytext.txt
Name: Viraj Gandhi
MIS: 112103155
```



```
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ batcat mytext.txt
Command 'batcat' not found, but can be installed with:
sudo apt install bat
```



```

viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ 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/>
Full documentation <https://www.gnu.org/software/coreutils/cat>
or available locally via: info '(coreutils) cat invocation'

```

```

viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ cat > mytext.txt
Hello!
Basic Cat command is working!
^Z
[1]+  Stopped                  cat > mytext.txt
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ cat mytext.txt
Hello!
Basic Cat command is working!

```

```

viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ cat >> mytext.txt
Adding a line here!
^Z
[2]+  Stopped                  cat >> mytext.txt
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ cat mytext.txt
Hello!
Basic Cat command is working!
Adding a line here!

```

```
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ ls -la
total 144
drwxr-x--- 22 viraj viraj 4096 Jan 21 14:13 .
drwxr-xr-x  3 root  root  4096 Nov  2 23:51 ..
drwxrwxr-x  2 viraj viraj 4096 Jan 21 07:05 3
-rw-rw-r--  1 viraj viraj    0 Dec 25  2007 add.c
-rwxrwxr-x  1 viraj viraj 15960 Nov 30 00:23 a.out
drwxrwxr-x  2 viraj viraj 4096 Nov 20 17:51 assign1
drwxrwxr-x  2 viraj viraj 4096 Nov 30 12:30 Assignment4
-rw-----  1 viraj viraj 3204 Jan 21 14:20 .bash_history
-rw-r--r--  1 viraj viraj  220 Nov  2 23:51 .bash_logout
-rw-r--r--  1 viraj viraj 3771 Nov  2 23:51 .bashrc
drwx----- 16 viraj viraj 4096 Dec  9 11:03 .cache
drwx----- 17 viraj viraj 4096 Jan 21 07:09 .config
drwxr-xr-x  2 viraj viraj 4096 Nov  3 05:27 Desktop
drwxr-xr-x  2 viraj viraj 4096 Nov  3 05:27 Documents
drwxr-xr-x  6 viraj viraj 4096 Jan 21 14:18 Downloads
drwxrwxr-x  3 viraj viraj 4096 Jan 21 14:13 DTL
drwx-----  2 viraj viraj 4096 Jan 21 14:15 .gnupg
-rw-rw-r--  1 viraj viraj    0 Jan 21 13:45 hello.c
-rw-----  1 viraj viraj   20 Nov 20 17:51 .lessht
drwx-----  3 viraj viraj 4096 Nov  3 05:27 .local
drwxr-xr-x  2 viraj viraj 4096 Nov  3 05:27 Music
drwxr-xr-x  3 viraj viraj 4096 Jan 21 07:08 Pictures
drwx-----  3 viraj viraj 4096 Dec  7 00:17 .pki
drwxrwxr-x  2 viraj viraj 4096 Nov 30 12:46 PPL
-rw-r--r--  1 viraj viraj  807 Nov  2 23:51 .profile
drwxr-xr-x  2 viraj viraj 4096 Nov  3 05:27 Public
drwx-----  4 viraj viraj 4096 Nov  3 05:42 snap
drwx-----  2 viraj viraj 4096 Dec  7 05:37 .ssh
-rw-r--r--  1 viraj viraj    0 Nov 30 05:45 .sudo_as_admin_successful
drwxr-xr-x  2 viraj viraj 4096 Nov  3 05:27 Templates
drwxr-xr-x  2 viraj viraj 4096 Nov  3 05:27 Videos
-rw-----  1 viraj viraj 14358 Jan 21 14:13 .viminfo
-rw-rw-r--  1 viraj viraj   69 Nov 30 00:16 viraj.c
```

```

viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ ll
total 152
drwxr-x--- 22 viraj viraj 4096 Jan 21 15:00 ./
drwxr-xr-x  3 root  root 4096 Nov  2 23:51 ../
drwxrwxr-x  2 viraj viraj 4096 Jan 21 07:05 3/
-rw-rw-r--  1 viraj viraj   0 Dec 25  2007 add.c
-rwxrwxr-x  1 viraj viraj 15960 Nov 30 00:23 a.out*
drwxrwxr-x  2 viraj viraj 4096 Nov 20 17:51 assign1/
drwxrwxr-x  2 viraj viraj 4096 Nov 30 12:30 Assignment4/
-rw-----  1 viraj viraj 3204 Jan 21 14:20 .bash_history
-rw-r--r--  1 viraj viraj  220 Nov  2 23:51 .bash_logout
-rw-r--r--  1 viraj viraj 3771 Nov  2 23:51 .bashrc
drwx----- 16 viraj viraj 4096 Dec  9 11:03 .cache/
drwx----- 17 viraj viraj 4096 Jan 21 07:09 .config/
drwxr-xr-x  2 viraj viraj 4096 Nov  3 05:27 Desktop/
drwxr-xr-x  2 viraj viraj 4096 Nov  3 05:27 Documents/
drwxr-xr-x  6 viraj viraj 4096 Jan 21 14:18 Downloads/
drwxrwxr-x  3 viraj viraj 4096 Jan 21 14:13 DTL/
drwx-----  2 viraj viraj 4096 Jan 21 14:15 .gnupg/
-rw-rw-r--  1 viraj viraj   0 Jan 21 13:45 hello.c
-rw-----  1 viraj viraj   20 Nov 20 17:51 .lessht
drwx-----  3 viraj viraj 4096 Nov  3 05:27 .local/
drwxr-xr-x  2 viraj viraj 4096 Nov  3 05:27 Music/
-rw-rw-r--  1 viraj viraj   34 Jan 21 14:50 mytext
-rw-rw-r--  1 viraj viraj   34 Jan 21 15:00 mytext.txt
drwxr-xr-x  3 viraj viraj 4096 Jan 21 07:08 Pictures/
drwx-----  3 viraj viraj 4096 Dec  7 00:17 .pki/
drwxrwxr-x  2 viraj viraj 4096 Nov 30 12:46 PPL/
-rw-r--r--  1 viraj viraj  807 Nov  2 23:51 .profile
drwxr-xr-x  2 viraj viraj 4096 Nov  3 05:27 Public/
drwx-----  4 viraj viraj 4096 Nov  3 05:42 snap/
drwx-----  2 viraj viraj 4096 Dec  7 05:37 .ssh/
-rw-r--r--  1 viraj viraj   0 Nov 30 05:45 .sudo_as_admin_successful
drwxr-xr-x  2 viraj viraj 4096 Nov  3 05:27 Templates/
drwxr-xr-x  2 viraj viraj 4096 Nov  3 05:27 Videos/
-rw-----  1 viraj viraj 14358 Jan 21 14:13 .viminfo
-rw-rw-r--  1 viraj viraj   69 Nov 30 00:16 viraj.c

```

```

viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ date
Saturday 21 January 2023 03:11:15 PM IST
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ date +%d
21
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ date +%m
01
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ date +%Y
2023

```

```

viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ bc
bc 1.07.1
Copyright 1991-1994, 1997, 1998, 2000, 2004, 2006, 2008, 2012-2017 Free Software Foundation,
This is free software with ABSOLUTELY NO WARRANTY.
For details type `warranty'.
1354986+12384
1367370

```

```
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ more mytext.txt
Hello!
Basic Cat command is working!
Adding a line here!
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ ls [0-9]*
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ ls [a-z]*
add.c  a.out  hello.c  mytext  mytext.txt  viraj.c

assign1:

snap:
firefox  snapd-desktop-integration
```

```
viraj@viraj-IdeaPad-3-15ALC6-Ub:~$ history
1  mkdir a
2  cd a
3  vi a.c
4  rm a.c
5  ls
6  clear
7  mkdir assign1
8  cd assign1
9  vi Q1.c
10 man sudo_root
11 cd assign1
12 vi 1.cc
13 vi 1.c
14 cd assign1
15 sudo vim 1.c
16 sudo cd assign1
17 sudo apt install vim
18 vim viraj.c
19 cc viraj.c
20 gcc viraj.c
21 sudo apt install gcc
22 gcc viraj.c
23 sudo apt install gcc
24 apt-get update
25 --fix-missing
26 sudo apt install gcc
27 apt-get update
28 clear
29 gcc viraj.c
30 sudo apt install gcc
31 sudo apt-get update
32 sudo apt install gcc
33 gcc viraj.c
34 ./a.out
35 clear
36 sudo apt install cmatrix
```