LINUX SHELL COMMANDS

1. ls - The most frequently used command in Linux to list directories

```
vijay@vijay:~$ ls
Desktop Documents Downloads Music Pictures Public sap sap2 snap Templates Videos
```

2. pwd - Print working directory command in Linuxclearclear

```
O/P: vijay@vijay:~$ pwd /home/vijay vijay@vijay:~$
```

3. cd - Linux command to navigate through directories

```
O/P: vijay@vijay:~$ cd vijay@vijay:~$
```

4. mkdir - Command used to create directories in Linux

```
vijay@vijay:~$ mkdir paruluniversity
vijay@vijay:~$ cd paruluniversity
vijay@vijay:~/paruluniversity$ ls
vijay@vijay:~/paruluniversity$
```

5. my - Move or rename files in Linux

6. **cp** - Similar usage as my but for copying files in Linux

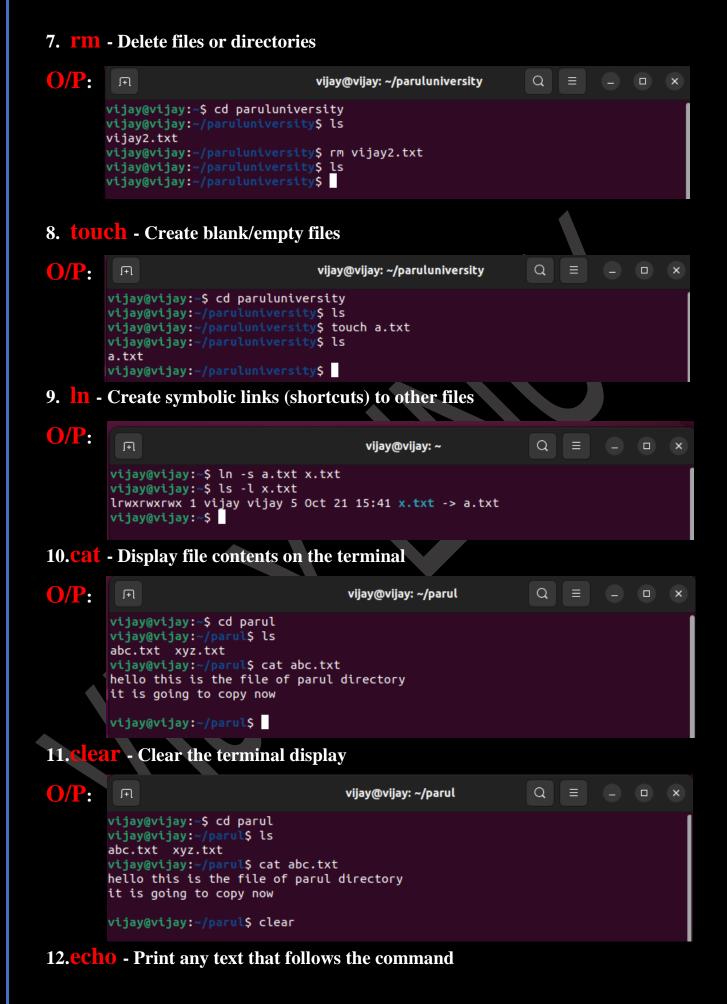
O/P:

```
vijay@vijay: ~/parul
Q = - □ ×

vijay@vijay: ~/parul$ ls
xyz.txt
vijay@vijay: ~/parul$ cp xyz.txt abc.txt
vijay@vijay: ~/parul$ ls
abc.txt xyz.txt
vijay@vijay: ~/parul$ open abc.txt
vijay@vijay: ~/parul$ □

Open > □

hello this is the file of parul directory
it is going to copy now
```



```
vijay@vijay: ~
                                                                 Q | =
                                                                                    ×
O/P:
       vijay@vijay:~$ echo hellow world
       hellow world
       vijay@vijay:~$
13. ess - Linux command to display paged outputs in the terminal
                                                                  Q ≡
                                           vijay@vijay: ~
O/P:
         Æ
        vijay@vijay:~$ less a.c
         J∓1
                                          vijay@vijay: ~
        int main()
                printf("Hellow");
                return 0;
        a.c (END)
14.man - Access manual pages for all Linux commands
O/P:
         vijay@vijay:~$ man printf
         PRINTF(1)
                                         User Commands
                                                                            PRINTF(1)
        NAME
               printf - format and print data
         SYNOPSIS
               printf FORMAT [ARGUMENT]...
               printf OPTION
        DESCRIPTION
               Print ARGUMENT(s) according to FORMAT, or execute according to OPTION:
                --help display this help and exit
15. uname - Linux command to get basic information about the OS
O/P:
         vijay@vijay:~$ uname
         Linux
         vijay@vijay:~$
         ami - Get the active username
vijay@vijay: ~
       vijay@vijay:~$ whoami
       vijay
       vijay@vijay:~$
17.tar - Command to extract and compress files in Linux
                                           vijay@vijay: ~
       vijay@vijay:~$ tar cvf file.tar *.c
       vijay@vijay:~$ tar xvf file.tar
       a.c
       vijay@vijay:~$
O/P:
```

18.grep - Search for a string within an output



19.head - Return the specified number of lines from the top



20.tail - Return the specified number of lines from the bottom



21.diff - Find the difference between two files

```
O/P:
                                                                      Q
                                             vijay@vijay: ~
                                                                                     vijay@vijay:~$ diff a.txt b.txt
        1,5c1
        < int main()</pre>
        < {
                 printf("Hellow");
                 return 0;
        <
        < }
        > hello this is a file used for the grep command. grep command is used to find t
        he delected word in the file. grep command is used in linux. grep command is ver
        y easy. greap command is simple.
        vijay@vijay:~$
```

22.cmp - Allows you to check if two files are identical

```
O/P:

vijay@vijay:~$ cmp a.txt b.txt
a.txt b.txt differ: byte 1, line 1
vijay@vijay:~$
```

23.comm - Combines the functionality of diff and cmp



24.sort - Linux command to sort the content of a file while outputting

```
O/P:
                                                                     Q =
                                             vijay@vijay: ~
                                                                                    vijay@vijay:~$ cat a.txt
         abhishek
        chitransh
         satish
        rajan
        naveen
        divyam
         harsh
        vijay@vijay:~$ sort a.txt
         abhishek
         chitransh
         divyam
         harsh
         naveen
         rajan
         satish
         vijay@vijay:~$
```

25.export - Export environment variables in Linux

```
vijay@vijay: ~
                                                                                                 O/P:
         vijay@vijay:~$ export -p
         declare -x COLORTERM="truecolor"
         declare -x DBUS SESSION BUS ADDRESS="unix:path=/run/user/1000/bus"
         declare -x DESKTOP_SESSION="ubuntu"
         declare -x DISPLAY=":0"
         declare -x GDMSESSION="ubuntu"
         declare -x GNOME_DESKTOP_SESSION_ID="this-is-deprecated"
         declare -x GNOME_SETUP_DISPLAY=":1"

declare -x GNOME_SHELL_SESSION_MODE="ubuntu"

declare -x GNOME TERMINAL SCREEN="/org/gnome/Terminal/screen/d90864c8 f3d4 482b
26. Zip - Zip files in Linux
O/p:
                                                                                Q
                                                    vijay@vijay: ~
          vijay@vijay:~$ zip myzip.zip a.c
          updating: a.c (stored 0%)
```

27.unzip - Unzip files in Linux

```
vijay@vijay:~$ zip myzip.zip a.c
updating: a.c (stored 0%)
vijay@vijay:~$ unzip myzip.zip
Archive: myzip.zip
replace a.c? [y]es, [n]o, [A]ll, [N]one, [r]ename: A
extracting: a.c
vijay@vijay:~$
28.SSh - Secure Shell command in Linux
```

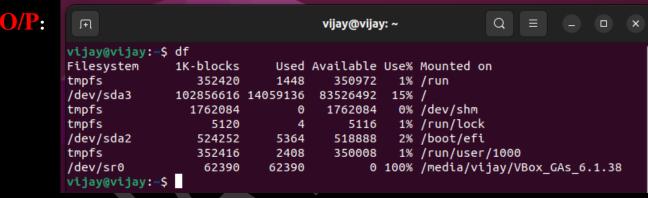
29. service - Linux command to start and stop services

```
O/P:
                                              vijay@vijay: ~
        vijay@vijay:~$ service --status-all
                 acpid
                 alsa-utils
                 anacron
                 apparmor
                 apport
                 avahi-daemon
                 bluetooth
                 console-setup.sh
                 CLOU
                 cups
                 cups-browsed
                 dbus
                 gdm3
                 grub-common
```

30.ps - Display active processes

31.kill and killall - Kill active processes by process ID or name

O/P: Q = vijay@vijay: ~ vijay@vijay:~\$ kill kill: usage: kill [-s sigspec | -n signum | -sigspec] pid | jobspec ... or kill -l [sigspec] vijay@vijay:~\$ killall Usage: killall [OPTION]... [--] NAME... killall -l, --list killall -V, --version require exact match for very long names -e,--exact -I,--ignore-case case insensitive process name match -g,--process-group kill process group instead of process -y,--younger-than kill processes younger than TIME -o,--older-than kill processes older than TIME ask for confirmation before killing -i,--interactive -l,--list list all known signal names -q,--quiet don't print complaints -г,--гедехр interpret NAME as an extended regular expression -s,--signal SIGNAL send this signal instead of SIGTERM -u,--user USER kill only process(es) running as USER -v,--verbose report if the signal was successfully sent -V,--version display version information -w,--wait wait for processes to die -n.--ns PID match processes that belong to the same namespaces as PID 32.df - Display disk filesystem information **O/P**: vijay@vijay: ~



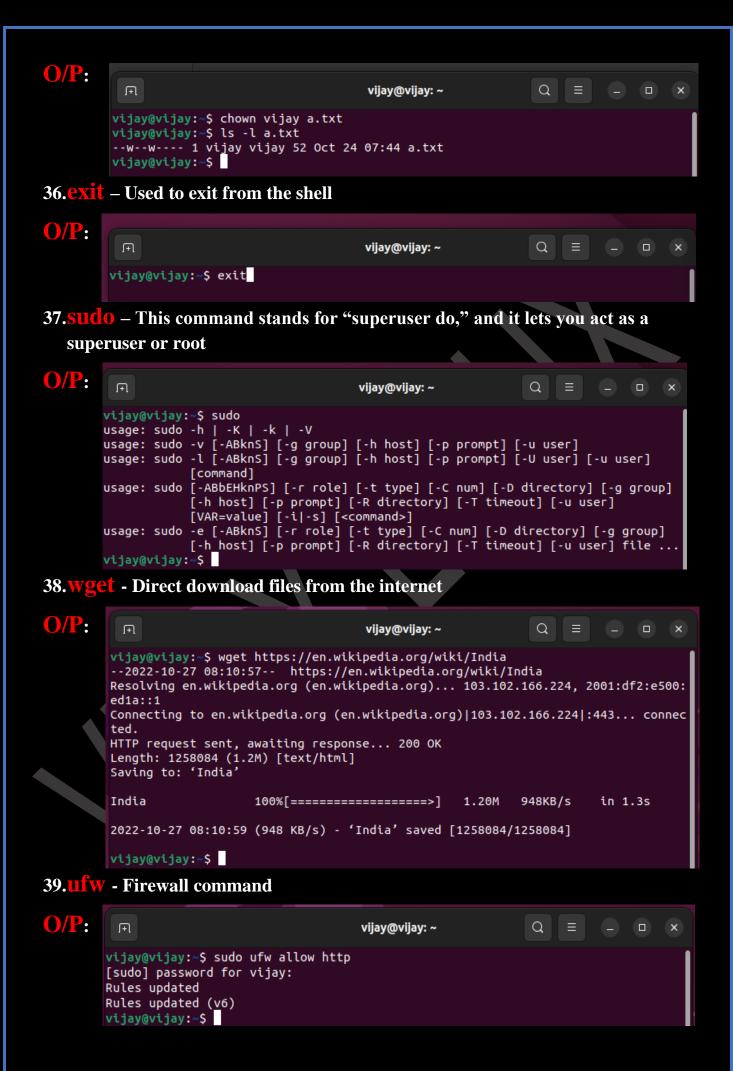
33.mount - Mount file systems in Linux

```
O/P:
                                            vijay@vijay: ~
                                                                                   vijay@vijay:~$ mount a.c
        mount: /home/vijay/a.c: can't find in /etc/fstab.
         vijay@vijay:~$
```

34.chmod - Command to change file permissions

```
O/P:
                                              vijay@vijay: ~
         vijay@vijay:~$ chmod -r a.txt
         vijay@vijay:~$ ls -l a.txt
         --w--w--- 1 vijay vijay 52 Oct 24 07:44 a.txt
         vijay@vijay:~$
```

35.chown - Command for granting ownership of files or folders



40.iptables - Base firewall for all other firewall utilities to interface with

O/P:

```
vijay@vijay: ~
vijay@vijay:~$ sudo iptables -L -v
Chain INPUT (policy ACCEPT 0 packets, 0 bytes)
pkts bytes target
                    prot opt in
                                                                  destination
                                     out
                                             source
Chain FORWARD (policy ACCEPT 0 packets, 0 bytes)
                                                                  destination
pkts bytes target
                    prot opt in
                                      out
Chain OUTPUT (policy ACCEPT 0 packets, 0 bytes)
pkts bytes target
                                                                  destination
                    prot opt in
                                     out
                                             source
vijay@vijay:~$
```

41.apt - Package managers depending on the distro

O/P:

```
vijay@vijay: ~
vijay@vijay:~$ apt --help
apt 2.4.6 (amd64)
Usage: apt [options] command
apt is a commandline package manager and provides commands for
searching and managing as well as querying information about packages.
It provides the same functionality as the specialized APT tools,
like apt-get and apt-cache, but enables options more suitable for
interactive use by default.
Most used commands:
  list - list packages based on package names
  search - search in package descriptions
  show - show package details
  install - install packages
  reinstall - reinstall packages
  remove - remove packages
  autoremove - Remove automatically all unused packages
  update - update list of available packages
  upgrade - upgrade the system by installing/upgrading packages
  full-upgrade - upgrade the system by removing/installing/upgrading packages edit-sources - edit the source information file
  satisfy - satisfy dependency strings
```

42.find - It defines the directory where to begin searching.

O/P:

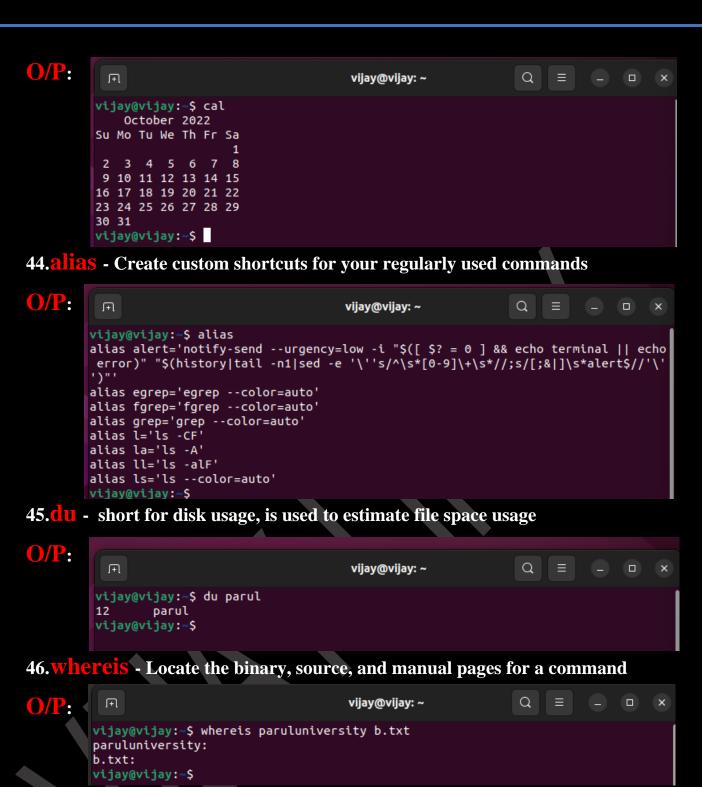
```
vijay@vijay:~

vijay@vijay:~

find -H

.
./.profile
./.gnupg
./.gnupg/pubring.kbx
./.gnupg/trustdb.gpg
./sap2
./sap2
./sap2/file1.txt
./sap2/sap3
./.ssh
./Downloads
./snap
```

43.cal - View a command-line calendar



47. whatis - Find what a command is used for

48.top - View active processes live with their system usage

