# Linux Commands – 2

Execute the following Linux commands.

    i.    ifconfig

```
kushagra@kushagra-VirtualBox:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 10.0.2.15  netmask 255.255.255.0  broadcast 10.0.2.255
        inet6 fe80::12fc:9b26:2b50:14b5  prefixlen 64  scopeid 0x20<link>
        ether 08:00:27:e3:3d:0e  txqueuelen 1000  (Ethernet)
        RX packets 383  bytes 457012 (457.0 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 303  bytes 25826 (25.8 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 224  bytes 18255 (18.2 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 224  bytes 18255 (18.2 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
```

    ii.    kill

```
kushagra@kushagra-VirtualBox:~$ kill -l
 1) SIGHUP        2) SIGINT       3) SIGQUIT      4) SIGILL       5) SIGTRAP
 6) SIGABRT       7) SIGBUS       8) SIGFPE       9) SIGKILL     10) SIGUSR1
11) SIGSEGV      12) SIGUSR2     13) SIGPIPE     14) SIGALRM     15) SIGTERM
16) SIGSTKFLT    17) SIGCHLD     18) SIGCONT     19) SIGSTOP     20) SIGTSTP
21) SIGTTIN      22) SIGTTOU     23) SIGURG      24) SIGXCPU     25) SIGXFSZ
26) SIGVTALRM    27) SIGPROF     28) SIGWINCH    29) SIGIO       30) SIGPWR
31) SIGSYS       34) SIGRTMIN    35) SIGRTMIN+1  36) SIGRTMIN+2  37) SIGRTMIN
+3
38) SIGRTMIN+4  39) SIGRTMIN+5  40) SIGRTMIN+6  41) SIGRTMIN+7  42) SIGRTMIN
+8
43) SIGRTMIN+9  44) SIGRTMIN+10 45) SIGRTMIN+11 46) SIGRTMIN+12 47) SIGRTMIN
+13
48) SIGRTMIN+14 49) SIGRTMIN+15 50) SIGRTMAX-14 51) SIGRTMAX-13 52) SIGRTMAX
-12
53) SIGRTMAX-11 54) SIGRTMAX-10 55) SIGRTMAX-9  56) SIGRTMAX-8  57) SIGRTMAX
-7
58) SIGRTMAX-6  59) SIGRTMAX-5  60) SIGRTMAX-4  61) SIGRTMAX-3  62) SIGRTMAX
-2
63) SIGRTMAX-1  64) SIGRTMAX
```

    iii.    mount

```
kushagra@kushagra-VirtualBox:~$ mount
sysfs on /sys type sysfs (rw,nosuid,nodev,noexec,relatime)
proc on /proc type proc (rw,nosuid,nodev,noexec,relatime)
udev on /dev type devtmpfs (rw,nosuid,relatime,size=976396k,nr_inodes=244099,mode=755,inode64)
devpts on /dev/pts type devpts (rw,nosuid,noexec,relatime,gid=5,mode=620,ptmxmode=000)
tmpfs on /run type tmpfs (rw,nosuid,nodev,noexec,relatime,size=202348k,mode=755,inode64)
/dev/sda3 on / type ext4 (rw,relatime,errors=remount-ro)
securityfs on /sys/kernel/security type securityfs (rw,nosuid,nodev,noexec,relatime)
tmpfs on /dev/shm type tmpfs (rw,nosuid,nodev,inode64)
tmpfs on /run/lock type tmpfs (rw,nosuid,nodev,noexec,relatime,size=5120k,inode64)
cgroup2 on /sys/fs/cgroup type cgroup2 (rw,nosuid,nodev,noexec,relatime,nsdelegate,memory_recursiveprot)
pstore on /sys/fs/pstore type pstore (rw,nosuid,nodev,noexec,relatime)
bpf on /sys/fs/bpf type bpf (rw,nosuid,nodev,noexec,relatime,mode=700)
systemd-1 on /proc/sys/fs/binfmt_misc type autofs (rw,relatime,fd=29,pgrp=1,timeout=0,minproto=5,maxproto=5,direct,pipe_ino=15612)
debugfs on /sys/kernel/debug type debugfs (rw,nosuid,nodev,noexec,relatime)
tracefs on /sys/kernel/tracing type tracefs (rw,nosuid,nodev,noexec,relatime)
mqueue on /dev/mqueue type mqueue (rw,nosuid,nodev,noexec,relatime)
hugetlbfs on /dev/hugepages type hugetlbfs (rw,relatime,pagesize=2M)
fusectl on /sys/fs/fuse/connections type fusectl (rw,nosuid,nodev,noexec,relatime)
configfs on /sys/kernel/config type configfs (rw,nosuid,nodev,noexec,relatime)
none on /run/credentials/systemd-sysusers.service type ramfs (ro,nosuid,nodev,noexec,relatime,mode=700)
/var/lib/snapd/snaps/bare_5.snap on /snap/bare/5 type squashfs (ro,nodev,relatime,errors=continue,x-gdu.hide)
/var/lib/snapd/snaps/core20_1587.snap on /snap/core20/1587 type squashfs (ro,nodev,relatime,errors=continue,x-gdu.hide)
/var/lib/snapd/snaps/firefox_2263.snap on /snap/firefox/2263 type squashfs (ro,nodev,relatime,errors=continue,x-gdu.hide)
/var/lib/snapd/snaps/core20_1778.snap on /snap/core20/1778 type squashfs (ro,nodev,relatime,errors=continue,x-gdu.hide)
/var/lib/snapd/snaps/gnome-3-38-2004_112.snap on /snap/gnome-3-38-2004/112 type squashfs (ro,nodev,relatime,errors=continue,x-gdu.hide)
/var/lib/snapd/snaps/gnome-3-38-2004_119.snap on /snap/gnome-3-38-2004/119 type squashfs (ro,nodev,relatime,errors=continue,x-gdu.hide)
```

iv.     sort

```
Open  ∨    ⊞                      c.txt                Save    ≡    _   □   ✕
                             ~/Desktop/kushagra

1 kushagra
2 agarwal
3 Kushagra
4 Agarwal
5 1234
```
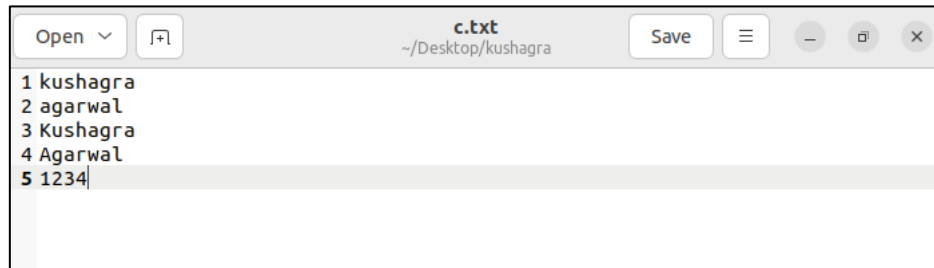
```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ sort c.txt
1234
agarwal
Agarwal
kushagra
Kushagra
```
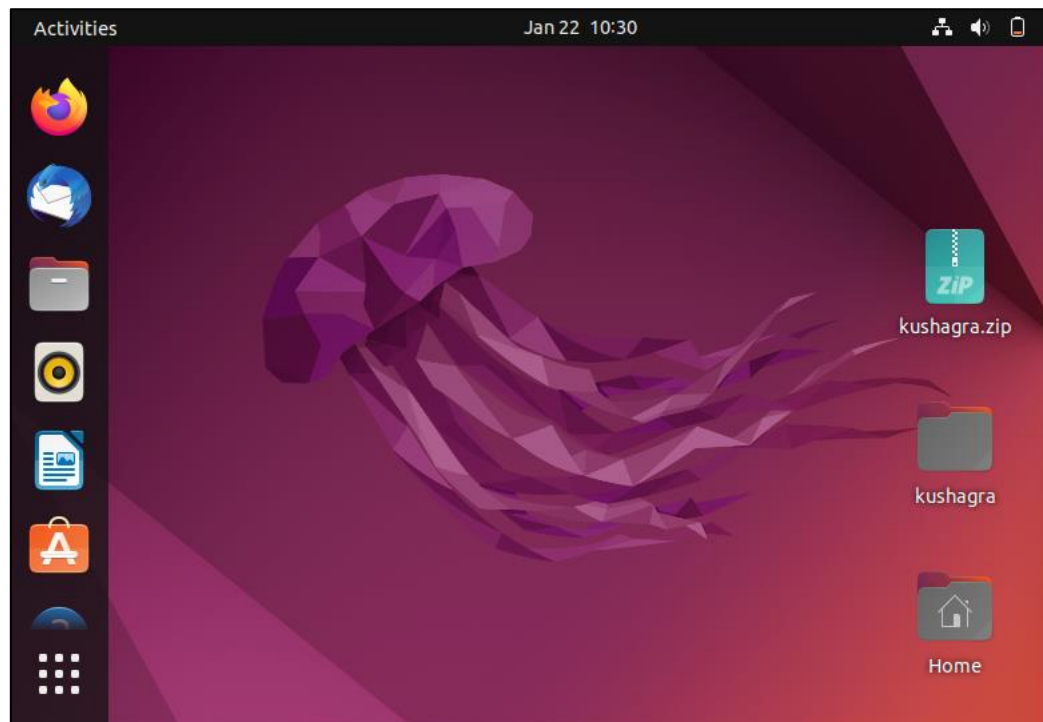
v.     export

```
kushagra@kushagra-VirtualBox:~/Desktop$ export
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/118c427a_bd0e_44cf_a05b_bb83b9618b14"
declare -x GNOME_TERMINAL_SERVICE=":1.127"
declare -x GTK_MODULES="gail:atk-bridge"
declare -x HOME="/home/kushagra"
declare -x IM_CONFIG_PHASE="1"
declare -x LANG="en_IN"
declare -x LANGUAGE="en_IN:en"
declare -x LESSCLOSE="/usr/bin/lesspipe %s %s"
declare -x LESSOPEN="| /usr/bin/lesspipe %s"
declare -x LOGNAME="kushagra"
```

vi.     ssh

```
kushagra@kushagra-VirtualBox:~/Desktop$ ssh
usage: ssh [-46AaCfGgKkMNnqsTtVvXxYy] [-B bind_interface]
           [-b bind_address] [-c cipher_spec] [-D [bind_address:]port]
           [-E log_file] [-e escape_char] [-F configfile] [-I pkcs11]
           [-i identity_file] [-J [user@]host[:port]] [-L address]
           [-l login_name] [-m mac_spec] [-O ctl_cmd] [-o option] [-p port]
           [-Q query_option] [-R address] [-S ctl_path] [-W host:port]
           [-w local_tun[:remote_tun]] destination [command [argument ...]]
```

vii.     zip

```
kushagra@kushagra-VirtualBox:~/Desktop$ zip -r kushagra.zip kushagra
  adding: kushagra/ (stored 0%)
  adding: kushagra/a.txt (stored 0%)
  adding: kushagra/b.txt (stored 0%)
  adding: kushagra/c.txt (deflated 26%)
```

viii.    unzip

```
kushagra@kushagra-VirtualBox:~/Desktop$ unzip kushagra1.zip
Archive:  kushagra1.zip
```

ix.    ps

```
kushagra@kushagra-VirtualBox:~/Desktop$ ps
    PID TTY          TIME CMD
   3527 pts/0    00:00:00 bash
   4162 pts/0    00:00:00 ps
```

x.    uname

```
kushagra@kushagra-VirtualBox:~/Desktop$ uname
Linux
```

xi.    chown

```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ sudo chown root a.txt
[sudo] password for kushagra:
Sorry, try again.
[sudo] password for kushagra:
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ ls -l a.txt
-rwxrw-r-- 1 root kushagra 19 Jan 14 22:10 a.txt
```

xii.    wget

```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ wget https://www.youtube.com
--2023-01-22 10:46:28--  https://www.youtube.com/
Resolving www.youtube.com (www.youtube.com)... 142.250.183.78, 216.58.203.46,
216.58.203.14, ...
Connecting to www.youtube.com (www.youtube.com)|142.250.183.78|:443... connect
ed.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]
Saving to: 'index.html'

index.html                               [            <=>

            ] 692.34K   346KB/s    in 2.0s

2023-01-22 10:46:31 (346 KB/s) - 'index.html' saved [708959]
```



xiii.    ufw

```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ sudo ufw enable
Firewall is active and enabled on system startup
```

xiv.    traceroute

```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ traceroute google.com
traceroute to google.com (216.239.38.120), 30 hops max, 60 byte packets
 1  _gateway (10.0.2.2)  0.501 ms  0.468 ms  0.455 ms
 2  * * *
 3  * * *
 4  * * *
```

xv.    service

```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ service --status-all
 [ + ]  acpid
 [ - ]  alsa-utils
 [ - ]  anacron
 [ + ]  apparmor
 [ + ]  apport
 [ + ]  avahi-daemon
 [ - ]  bluetooth
 [ - ]  console-setup.sh
 [ + ]  cron
 [ + ]  cups
 [ + ]  cups-browsed
 [ + ]  dbus
 [ + ]  gdm3
 [ - ]  grub-common
 [ - ]  hwclock.sh
 [ - ]  irqbalance
 [ + ]  kerneloops
 [ - ]  keyboard-setup.sh
```

xvi.   alias

```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ alias
alias alert='notify-send --urgency=low -i "$([ $? = 0 ] && echo terminal || ec
ho error)" "$(history|tail -n1|sed -e '\''s/^\s*[0-9]\+\s*//;s/[;&|]\s*alert$/
/'\''')"'
alias egrep='egrep --color=auto'
alias fgrep='fgrep --color=auto'
alias grep='grep --color=auto'
alias l='ls -CF'
alias la='ls -A'
alias ll='ls -alF'
alias ls='ls --color=auto'
```

xvii.   dd

```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ cat a.txt
hello how are you.
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ cat b.txt
kushagra agarwal.
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ dd if=a.txt of=b.txt
0+1 records in
0+1 records out
19 bytes copied, 0.000177784 s, 107 kB/s
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ cat b.txt
hello how are you.
```

xviii.   whereis

```
kushagra@kushagra-VirtualBox:~$ whereis lshw
lshw: /usr/bin/lshw /usr/share/man/man1/lshw.1.gz
```

xix.   whatis

```
kushagra@kushagra-VirtualBox:~$ whatis whereis
whereis (1)          - locate the binary, source, and manual page files for...
```

xx.   diff

```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ diff a.txt b.txt
1c1
< hello how are you.
---
> Kushagra Agarwal
```

xxi.   ln

```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ ls
a.txt  b.txt  c.txt  index.html
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ ln a.txt d.txt
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ ls
a.txt  b.txt  c.txt  d.txt  index.html
```

xxii.     top

```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ top




top - 12:15:06 up  2:37,  1 user,  load average: 0.17, 0.07, 0.01
Tasks: 192 total,   1 running, 191 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.7 us,  0.7 sy,  0.0 ni, 98.3 id,  0.3 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :   1976.0 total,    228.9 free,    845.8 used,    901.4 buff/cache
MiB Swap:   2140.0 total,   2037.1 free,    102.9 used.    952.5 avail Mem

   PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
  1607 kushagra  20   0 4170872 393972  79132 S   1.7  19.5   4:01.41 gnome-shell
  6547 kushagra  20   0  575372  57204  44444 S   0.3   2.8   0:08.48 gnome-terminal-
     1 root      20   0  167924  10928   5948 S   0.0   0.5   0:01.27 systemd
     2 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kthreadd
     3 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_gp
     4 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_par_gp
     5 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 slub_flushwq
     6 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 netns
     8 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/0:0H-events_highpri
    10 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 mm_percpu_wq
    11 root      20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_rude_
    12 root      20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_trace
    13 root      20   0       0      0      0 S   0.0   0.0   0:00.37 ksoftirqd/0
    14 root      20   0       0      0      0 I   0.0   0.0   0:02.19 rcu_sched
    15 root      rt   0       0      0      0 S   0.0   0.0   0:00.07 migration/0
    16 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/0
    18 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/0
    19 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kdevtmpfs
    20 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 inet_frag_wq
```

xxiii.     useradd

```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ useradd -D
GROUP=100
HOME=/home
INACTIVE=-1
EXPIRE=
SHELL=/bin/sh
SKEL=/etc/skel
CREATE_MAIL_SPOOL=no
```

xxiv.      man

```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ man man
```

```
MAN(1)                                       Manual pager utils                                       MAN(1)

NAME
       man - an interface to the system reference manuals

SYNOPSIS
       man [man options] [[section] page ...] ...
       man -k [apropos options] regexp ...
       man -K [man options] [section] term ...
       man -f [whatis options] page ...
       man -l [man options] file ...
       man -w|-W [man options] page ...

DESCRIPTION
       man is the  system's manual pager.  Each page argument given to man is normally the name of a program, utility or function.  The manual page associated with each of these arguments is then
       found and displayed.  A section, if provided, will direct man to look only in that section of the manual.  The default action is to search in all of the available sections following  a  pre-
       defined order (see DEFAULTS), and to show only the first page found, even if page exists in several sections.

       The table below shows the section numbers of the manual followed by the types of pages they contain.

       1   Executable programs or shell commands
       2   System calls (functions provided by the kernel)
       3   Library calls (functions within program libraries)
       4   Special files (usually found in /dev)
       5   File formats and conventions, e.g. /etc/passwd
       6   Games
       7   Miscellaneous (including macro packages and conventions), e.g. man(7), groff(7), man-pages(7)
       8   System administration commands (usually only for root)
       9   Kernel routines [Non standard]

       A manual page consists of several sections.

       Conventional  section names include NAME, SYNOPSIS, CONFIGURATION, DESCRIPTION, OPTIONS, EXIT STATUS, RETURN VALUE, ERRORS, ENVIRONMENT, FILES, VERSIONS, CONFORMING TO, NOTES, BUGS, EXAMPLE,
       AUTHORS, and SEE ALSO.

       The following conventions apply to the SYNOPSIS section and can be used as a guide in other sections.

       bold text          type exactly as shown.
       italic text        replace with appropriate argument.
       [-abc]             any or all arguments within [ ] are optional.
       -a|-b              options delimited by | cannot be used together.
       argument ...       argument is repeatable.
       [expression] ...   entire expression within [ ] is repeatable.
```

xxv.      cp

```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ cp a.txt a_copy.txt
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ ls
a_copy.txt   a.txt   b.txt   c.txt   d.txt   index.html
```

xxvi.      netstat

```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
udp        0      0 kushagra-Virtual:bootpc _gateway:bootps         ESTABLISHE
D
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags       Type       State         I-Node   Path
unix  2      [ ]         DGRAM                    22061    /run/user/1000/syst
emd/notify
unix  3      [ ]         DGRAM      CONNECTED     15599    /run/systemd/notify
unix  2      [ ]         DGRAM                    15615    /run/systemd/journa
l/syslog
unix  17     [ ]         DGRAM      CONNECTED     15624    /run/systemd/journa
l/dev-log
unix  9      [ ]         DGRAM      CONNECTED     15626    /run/systemd/journa
l/socket
unix  3      [ ]         STREAM     CONNECTED     25507
unix  3      [ ]         STREAM     CONNECTED     24231
unix  3      [ ]         STREAM     CONNECTED     23418    /run/systemd/journa
l/stdout
unix  3      [ ]         STREAM     CONNECTED     22159
unix  3      [ ]         STREAM     CONNECTED     18409
unix  3      [ ]         STREAM     CONNECTED     18028
unix  3      [ ]         STREAM     CONNECTED     24474
unix  3      [ ]         STREAM     CONNECTED     23665    /run/systemd/journa
l/stdout
```

xxvii.     nslookup

```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ nslookup google.com
Server:         127.0.0.53
Address:        127.0.0.53#53

Non-authoritative answer:
Name:   google.com
Address: 216.239.38.120
Name:   google.com
Address: 2001:4860:4802:32::78
```

xxviii.     dig

```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ dig

; <<>> DiG 9.18.1-1ubuntu1.1-Ubuntu <<>>
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 61701
;; flags: qr rd ra; QUERY: 1, ANSWER: 13, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;.                              IN      NS

;; ANSWER SECTION:
.                       86500   IN      NS      c.root-servers.net.
.                       86500   IN      NS      g.root-servers.net.
.                       86500   IN      NS      k.root-servers.net.
.                       86500   IN      NS      a.root-servers.net.
.                       86500   IN      NS      j.root-servers.net.
.                       86500   IN      NS      d.root-servers.net.
.                       86500   IN      NS      m.root-servers.net.
.                       86500   IN      NS      b.root-servers.net.
.                       86500   IN      NS      f.root-servers.net.
.                       86500   IN      NS      i.root-servers.net.
.                       86500   IN      NS      h.root-servers.net.
.                       86500   IN      NS      e.root-servers.net.
.                       86500   IN      NS      l.root-servers.net.

;; Query time: 28 msec
;; SERVER: 127.0.0.53#53(127.0.0.53) (UDP)
;; WHEN: Sun Jan 22 12:29:03 IST 2023
;; MSG SIZE  rcvd: 239
```

xxix.     uptime

```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ uptime
 12:29:57 up  2:52,  1 user,  load average: 0.32, 0.17, 0.08
```

xxx.     wall

```
kushagra@kushagra-VirtualBox:~$ sudo wall -n Hello
[sudo] password for kushagra:


Hello
```

xxxi.      mesg

```
kushagra@kushagra-VirtualBox:~$ mesg n
kushagra@kushagra-VirtualBox:~$ write a
write: you have write permission turned off
```

xxxii.     write

```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ mesg y
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ write yash
hello
```

xxxiii.    talk

```
Message from Talk_Daemon@kushagra-VirtualBox at 14:39 ...
talk: connection requested by kushagra@127.0.0.1.
talk: respond with:  talk kushagra@127.0.0.1

talk kushagra@localhost
```

```
kushagra@kushagra-VirtualBox:~$ talk yash@localhost
kushagra@kushagra-VirtualBox:~$
```

```
hi
i am yash



how are you
i am kushagra
```

```
how are you
i am kushagra



hi
i am yash
```

xxxiv.     w

```
kushagra@kushagra-VirtualBox:~$ w
 14:50:14 up  5:12,  4 users,  load average: 1.15, 1.15, 1.06
USER     TTY      FROM           LOGIN@   IDLE   JCPU   PCPU WHAT
kushagra tty2     tty2           09:38    5:12m  0.01s  0.01s /usr/libe
kushagra pts/1    -              13:39    0.00s  0.00s  0.00s sudo su y
kushagra pts/4    -              13:41    0.00s  0.00s  0.02s sudo su y
yash     tty3     tty3           13:52    5:12m  0.01s  0.01s /usr/libe
```

xxxv.    rename

```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ mv a.txt a_new.txt
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ ll
total 724
drwxrwxr-x 2 kushagra kushagra   4096 Jan 22 15:37 ./
drwxr-xr-x 3 kushagra kushagra   4096 Jan 22 10:34 ../
-rwxrw-r-- 1 kushagra kushagra     14 Jan 22 12:24 a_copy.txt*
-rwxrw-r-- 2 root     kushagra     14 Jan 22 12:10 a_new.txt*
-rw-rw-r-- 1 kushagra kushagra     17 Jan 22 12:05 b.txt
-rw-rw-r-- 1 kushagra kushagra     39 Jan 22 10:08 c.txt
-rwxrw-r-- 2 root     kushagra     14 Jan 22 12:10 d.txt*
-rw-rw-r-- 1 kushagra kushagra 708959 Jan 22 10:46 index.html
```

xxxvi.    free

```
kushagra@kushagra-VirtualBox:~/Desktop/kushagra$ free
              total        used        free      shared  buff/cache   available
Mem:        2023460     1156604      181248       17828      685608      684304
Swap:       2191356      305356     1886000
```