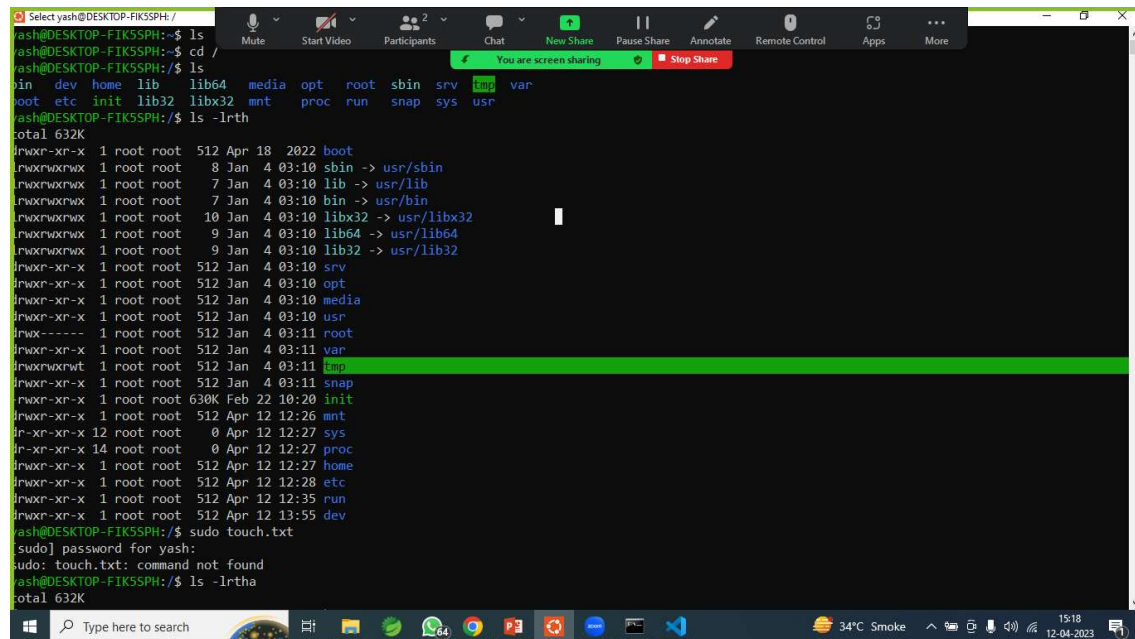


Assignment: 2

Name :Yashwant Singh Rathore

Topic : Basic Linux commands

Date : 12 April 2023



The screenshot shows a terminal window with the following commands and output:

```
yash@DESKTOP-FIK5SPH:~$ ls
yash@DESKTOP-FIK5SPH:~$ cd /
yash@DESKTOP-FIK5SPH:/$ ls
bin  dev  home  lib  lib64  media  opt  root  sbin  srv  tmp  var
root  etc  init  lib32  libx32  mnt  proc  run  snap  sys  usr
yash@DESKTOP-FIK5SPH:/$ ls -lrth
total 632K
lrwxr-xr-x 1 root root 512 Apr 18 2022 boot
lrwxrwxrwx 1 root root 8 Jan 4 03:10 sbin -> usr/sbin
lrwxrwxrwx 1 root root 7 Jan 4 03:10 lib -> usr/lib
lrwxrwxrwx 1 root root 7 Jan 4 03:10 bin -> usr/bin
lrwxrwxrwx 1 root root 10 Jan 4 03:10 libx32 -> usr/libx32
lrwxrwxrwx 1 root root 9 Jan 4 03:10 lib64 -> usr/lib64
lrwxrwxrwx 1 root root 9 Jan 4 03:10 lib32 -> usr/lib32
lrwxr-xr-x 1 root root 512 Jan 4 03:10 srv
lrwxr-xr-x 1 root root 512 Jan 4 03:10 opt
lrwxr-xr-x 1 root root 512 Jan 4 03:10 media
lrwxr-xr-x 1 root root 512 Jan 4 03:10 usr
lrwx----- 1 root root 512 Jan 4 03:11 root
lrwxr-xr-x 1 root root 512 Jan 4 03:11 var
lrwxrwxrwt 1 root root 512 Jan 4 03:11 tmp
lrwxr-xr-x 1 root root 512 Jan 4 03:11 snap
lrwxr-xr-x 1 root root 630K Feb 22 10:20 init
lrwxr-xr-x 1 root root 512 Apr 12 12:26 mnt
lr-xr-xr-x 12 root root 0 Apr 12 12:27 sys
lr-xr-xr-x 14 root root 0 Apr 12 12:27 proc
lrwxr-xr-x 1 root root 512 Apr 12 12:27 home
lrwxr-xr-x 1 root root 512 Apr 12 12:28 etc
lrwxr-xr-x 1 root root 512 Apr 12 12:35 run
lrwxr-xr-x 1 root root 512 Apr 12 13:55 dev
yash@DESKTOP-FIK5SPH:/$ sudo touch.txt
[sudo] password for yash:
sudo: touch.txt: command not found
yash@DESKTOP-FIK5SPH:/$ ls -lrth
total 632K
```

```
Select yash@DESKTOP-FIK5SPH /
yash@DESKTOP-FIK5SPH:/$ sudo
[sudo] password for yash:
sudo: touch.txt: command not found
yash@DESKTOP-FIK5SPH:/$ ls -lrtha
total 632K
lrwxr-xr-x 1 root root 512 Apr 18 2022 boot
lrwxr-xr-x 1 root root 8 Jan 4 03:10 sbin -> usr/sbin
lrwxr-xr-x 1 root root 7 Jan 4 03:10 lib -> usr/lib
lrwxr-xr-x 1 root root 7 Jan 4 03:10 bin -> usr/bin
lrwxr-xr-x 1 root root 10 Jan 4 03:10 libx32 -> usr/libx32
lrwxr-xr-x 1 root root 9 Jan 4 03:10 lib64 -> usr/lib64
lrwxr-xr-x 1 root root 9 Jan 4 03:10 lib32 -> usr/lib32
lrwxr-xr-x 1 root root 512 Jan 4 03:10 srv
lrwxr-xr-x 1 root root 512 Jan 4 03:10 opt
lrwxr-xr-x 1 root root 512 Jan 4 03:10 media
lrwxr-xr-x 1 root root 512 Jan 4 03:10 usr
lrwx----- 1 root root 512 Jan 4 03:11 root
lrwxr-xr-x 1 root root 512 Jan 4 03:11 var
lrwxr-xr-xwt 1 root root 512 Jan 4 03:11 tmp
lrwxr-xr-x 1 root root 512 Jan 4 03:11 snap
lrwxr-xr-x 1 root root 630K Feb 22 10:20 init
lrwxr-xr-x 1 root root 512 Apr 12 12:26 ..
lrwxr-xr-x 1 root root 512 Apr 12 12:26 .
lrwxr-xr-x 1 root root 512 Apr 12 12:26 mnt
lr-xr-xr-x 12 root root 0 Apr 12 12:27 sys
lr-xr-xr-x 14 root root 0 Apr 12 12:27 proc
lrwxr-xr-x 1 root root 512 Apr 12 12:27 home
lrwxr-xr-x 1 root root 512 Apr 12 12:28 etc
lrwxr-xr-x 1 root root 512 Apr 12 12:35 run
lrwxr-xr-x 1 root root 512 Apr 12 13:55 dev
yash@DESKTOP-FIK5SPH:/$ ls -help
ls: invalid option -- 'e'
Try 'ls --help' for more information.
yash@DESKTOP-FIK5SPH:/$ ls-help
ls-help: command not found
```

```
Select yash@DESKTOP-FIK5SPH /
yash@DESKTOP-FIK5SPH:/$ ls-l
ls-help: command not found
yash@DESKTOP-FIK5SPH:/$ ls --help
Usage: ls [OPTION]... [FILE]...
List information about the FILES (the current directory by default).
Sort entries alphabetically if none of -ftuvSUX nor --sort is specified.

Mandatory arguments to long options are mandatory for short options too.
-a, --all                do not ignore entries starting with .
-A, --almost-all        do not list implied . and ..
--author                 with -l, print the author of each file
-b, --escape             print C-style escapes for nongraphic characters
--block-size=SIZE        with -l, scale sizes by SIZE when printing them;
                        e.g., '--block-size=M'; see SIZE format below
-B, --ignore-backups     do not list implied entries ending with ~
-c                       with -lt: sort by, and show, ctime (time of last
                        modification of file status information);
                        with -l: show ctime and sort by name;
                        otherwise: sort by ctime, newest first
-C                       list entries by columns
--color[=WHEN]           colorize the output; WHEN can be 'always' (default
                        if omitted), 'auto', or 'never'; more info below
-d, --directory          list directories themselves, not their contents
-D, --dired              generate output designed for Emacs' dired mode
-f                       do not sort, enable -aU, disable -ls --color
-F, --classify           append indicator (one of */>@|) to entries
--file-type              likewise, except do not append '*'
--format=WORD            across -x, commas -m, horizontal -x, long -l,
                        single-column -1, verbose -l, vertical -C
--full-time              like -l --time-style=full-iso
-g                       like -l, but do not list owner
--group-directories-first
                        group directories before files;
                        can be augmented with a --sort option, but any
                        use of --sort=none (-U) disables grouping
```

```
Select yash@DESKTOP-FIK5SPH /
full documentation <https://...>
or available locally via: info (coreutils) is invocation
yash@DESKTOP-FIK5SPH:/$ ls -man help
ls: cannot access 'man': No such file or directory
ls: cannot access 'help': No such file or directory
yash@DESKTOP-FIK5SPH:/$ man help
no manual entry for help
yash@DESKTOP-FIK5SPH:/$ mkdir test
mkdir: cannot create directory 'test': Permission denied
yash@DESKTOP-FIK5SPH:/$ sudo mkdir test
yash@DESKTOP-FIK5SPH:/$ ls
bin dev home lib lib64 media opt root sbin srv test usr
root etc init lib32 libx32 mnt proc run snap sys temp var
yash@DESKTOP-FIK5SPH:/$ cd test
yash@DESKTOP-FIK5SPH:/test$ cd..
cd..: command not found
yash@DESKTOP-FIK5SPH:/test$ ls
yash@DESKTOP-FIK5SPH:/test$ cd .
yash@DESKTOP-FIK5SPH:/test$ cd ..
yash@DESKTOP-FIK5SPH:/test$ mkdir yash.txt
mkdir: cannot create directory 'yash.txt': Permission denied
yash@DESKTOP-FIK5SPH:/test$ mkdir yash
mkdir: cannot create directory 'yash': Permission denied
yash@DESKTOP-FIK5SPH:/test$ sudo mkdir yash.txt
yash@DESKTOP-FIK5SPH:/test$ ls
bin dev home lib lib64 media opt root sbin srv test usr yash.txt
root etc init lib32 libx32 mnt proc run snap sys temp var
yash@DESKTOP-FIK5SPH:/test$ touch yash2.txt
touch: cannot touch 'yash2.txt': Permission denied
yash@DESKTOP-FIK5SPH:/test$ sudo touch yash2.txt
yash@DESKTOP-FIK5SPH:/test$ ls
bin dev home lib lib64 media opt root sbin srv test usr yash.txt
root etc init lib32 libx32 mnt proc run snap sys temp var yash2.txt
yash@DESKTOP-FIK5SPH:/test$ cd yash.txt
yash@DESKTOP-FIK5SPH:/yash.txt$ cat>file.txt
```

```
Select yash@DESKTOP-FIK5SPH /
yash@DESKTOP-FIK5SPH:/$ mkd:
mkdir: cannot create directory 'yash.txt': Permission denied
yash@DESKTOP-FIK5SPH:/$ mkdir yash
mkdir: cannot create directory 'yash': Permission denied
yash@DESKTOP-FIK5SPH:/$ sudo mkdir yash.txt
yash@DESKTOP-FIK5SPH:/$ ls
bin dev home lib lib64 media opt root sbin srv test usr yash.txt
root etc init lib32 libx32 mnt proc run snap sys temp var
yash@DESKTOP-FIK5SPH:/$ touch yash2.txt
touch: cannot touch 'yash2.txt': Permission denied
yash@DESKTOP-FIK5SPH:/$ sudo touch yash2.txt
yash@DESKTOP-FIK5SPH:/$ ls
bin dev home lib lib64 media opt root sbin srv test usr yash.txt
root etc init lib32 libx32 mnt proc run snap sys temp var yash2.txt
yash@DESKTOP-FIK5SPH:/$ cd yash.txt
yash@DESKTOP-FIK5SPH:/yash.txt$ cat>file.txt
bash: file.txt: Permission denied
yash@DESKTOP-FIK5SPH:/yash.txt$ sudo cat>file.txt
bash: file.txt: Permission denied
yash@DESKTOP-FIK5SPH:/yash.txt$ cat file.txt
cat: file.txt: No such file or directory
yash@DESKTOP-FIK5SPH:/yash.txt$ mv yash.txt rename_yashwant.txt
mv: cannot stat 'yash.txt': No such file or directory
yash@DESKTOP-FIK5SPH:/yash.txt$ ls
yash@DESKTOP-FIK5SPH:/yash.txt$ cd..
cd..: command not found
yash@DESKTOP-FIK5SPH:/yash.txt$ cd ..
yash@DESKTOP-FIK5SPH:/$ ls
bin dev home lib lib64 media opt root sbin srv test usr yash.txt
root etc init lib32 libx32 mnt proc run snap sys temp var yash2.txt
yash@DESKTOP-FIK5SPH:/$ mv yash.txt rename yashwant.txt
mv: target 'yashwant.txt' is not a directory
yash@DESKTOP-FIK5SPH:/$ mv yash.txt renameyashwant.txt
mv: cannot move 'yash.txt' to 'renameyashwant.txt': Permission denied
yash@DESKTOP-FIK5SPH:/$ mv yash.txt yashwant.txt
```

```
yash@DESKTOP-FIK5SPH: ~/infobell
yash@DESKTOP-FIK5SPH:~$ ls
infobell
yash@DESKTOP-FIK5SPH:~$ cd infobell
yash@DESKTOP-FIK5SPH:~/infobell$ ls
yash@DESKTOP-FIK5SPH:~/infobell$ touch yash.txt
yash@DESKTOP-FIK5SPH:~/infobell$ ls
yash.txt
yash@DESKTOP-FIK5SPH:~/infobell$ vi yash.txt
yash@DESKTOP-FIK5SPH:~/infobell$ head yash.txt
top linux command
mkdir
pwd
touch
head
tail
yashwant
yogesh
top
cal
yash@DESKTOP-FIK5SPH:~/infobell$ tail yash.txt
pwd
touch
head
tail
yashwant
yogesh
top
cal
date
yash@DESKTOP-FIK5SPH:~/infobell$ touch yash1 yash2 yash3 yash4
yash@DESKTOP-FIK5SPH:~/infobell$ ls
```

```
yash@DESKTOP-FIK5SPH: ~/infobell
date
yash@DESKTOP-FIK5SPH:~/infobell$ touch yash1 yash2 yash3 yash4
yash@DESKTOP-FIK5SPH:~/infobell$ ls
yash.txt yash1 yash2 yash3 yash4
yash@DESKTOP-FIK5SPH:~/infobell$ grep "yashwant" yash.txt
yashwant
yashwant
yash@DESKTOP-FIK5SPH:~/infobell$ whoami
yash
yash@DESKTOP-FIK5SPH:~/infobell$ rm yash4
yash@DESKTOP-FIK5SPH:~/infobell$ ls
yash.txt yash1 yash2 yash3
yash@DESKTOP-FIK5SPH:~/infobell$ date
Wed Apr 12 16:32:18 IST 2023
yash@DESKTOP-FIK5SPH:~/infobell$ wc yash.txt
 23  26 149 yash.txt
yash@DESKTOP-FIK5SPH:~/infobell$ ls -l
total 0
-rw-r--r-- 1 yash yash 149 Apr 12 16:28 yash.txt
-rw-r--r-- 1 yash yash   0 Apr 12 16:29 yash1
-rw-r--r-- 1 yash yash   0 Apr 12 16:29 yash2
-rw-r--r-- 1 yash yash   0 Apr 12 16:29 yash3
yash@DESKTOP-FIK5SPH:~/infobell$ ps
  PID TTY          TIME CMD
  297 tty2      00:00:00 bash
  325 tty2      00:00:00 ps
yash@DESKTOP-FIK5SPH:~/infobell$ ps -a
  PID TTY          TIME CMD
   95 pts/0      00:00:00 su
   96 pts/0      00:00:00 bash
  297 tty2      00:00:00 bash
```

```
yash@DESKTOP-FIK5SPH: ~/infobell
yash@DESKTOP-FIK5SPH:~/infobell$ ls -a
.  ..  yash.txt  yash1  yash2  yash3
yash@DESKTOP-FIK5SPH:~/infobell$ top yash.txt
top: unknown option 'y'
Usage:
  top -hv | -bcEeHiOss1 -d secs -n max -u|U user -p pid(s) -o field -w [cols]
yash@DESKTOP-FIK5SPH:~/infobell$ dig amazon.com

; <<>> DiG 9.18.1-1ubuntu1.2-Ubuntu <<>> amazon.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 33615
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags:; udp: 1280
;; QUESTION SECTION:
;amazon.com.                IN      A

;; ANSWER SECTION:
amazon.com.                 726     IN      A       54.239.28.85
amazon.com.                 726     IN      A       52.94.236.248
amazon.com.                 726     IN      A       205.251.242.103

;; Query time: 12 msec
;; SERVER: 192.168.29.1#53(192.168.29.1) (UDP)
;; WHEN: Wed Apr 12 16:38:24 IST 2023
;; MSG SIZE rcvd: 87

yash@DESKTOP-FIK5SPH:~/infobell$ tee yashwant.txt
yyashwant
yyashwant
```

```
yash@DESKTOP-FIK5SPH: ~/infobell
;; MSG SIZE rcvd: 87

yash@DESKTOP-FIK5SPH:~/infobell$ tee yashwant.txt
yyashwant
yyashwant

AC
yash@DESKTOP-FIK5SPH:~/infobell$ ls
yash.txt  yash1  yash2  yash3  yashwant.txt
yash@DESKTOP-FIK5SPH:~/infobell$ cat >> yash.txt
yogesh
shubham
yash@DESKTOP-FIK5SPH:~/infobell$ cat yash.txt
top linux command
mkdir
pwd
touch
head
tail
yashwant
yogesh
top
cal
date
top linux command
mkdir
pwd
touch
head
tail
yashwant
```



```
yash@DESKTOP-FIK5SPH: ~/infobell
yogesh
shubham
yash@DESKTOP-FIK5SPH:~/infobell$ cat > yash.txt
varun
yash
tanu
yash@DESKTOP-FIK5SPH:~/infobell$ cat yash.txt
varun
yash
tanu
yash@DESKTOP-FIK5SPH:~/infobell$ cp yash.txt yash2
yash@DESKTOP-FIK5SPH:~/infobell$ cat yash2
varun
yash
tanu
yash@DESKTOP-FIK5SPH:~/infobell$ mv yash2 yash3
yash@DESKTOP-FIK5SPH:~/infobell$ cat yash3
varun
yash
tanu
yash@DESKTOP-FIK5SPH:~/infobell$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
rootfs          234310652  86943032 147367620  38% /
none            234310652  86943032 147367620  38% /dev
none            234310652  86943032 147367620  38% /run
none            234310652  86943032 147367620  38% /run/lock
none            234310652  86943032 147367620  38% /run/shm
none            234310652  86943032 147367620  38% /run/user
tmpfs           234310652  86943032 147367620  38% /sys/fs/cgroup
C:\             234310652  86943032 147367620  38% /mnt/c
D:\             192425980  98999628  93426352  52% /mnt/d
```

```
yash@DESKTOP-FIK5SPH: ~/infobell
yash@DESKTOP-FIK5SPH:~/infobell$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
rootfs          234310652  86943032 147367620  38% /
none            234310652  86943032 147367620  38% /dev
none            234310652  86943032 147367620  38% /run
none            234310652  86943032 147367620  38% /run/lock
none            234310652  86943032 147367620  38% /run/shm
none            234310652  86943032 147367620  38% /run/user
tmpfs           234310652  86943032 147367620  38% /sys/fs/cgroup
C:\             234310652  86943032 147367620  38% /mnt/c
D:\             192425980  98999628  93426352  52% /mnt/d
E:\             204799996   602088  204197908   1% /mnt/e
F:\             307199996 18573484  288626512   7% /mnt/f
G:\             255998972  3486172  252512800   2% /mnt/g
H:\             15043580 13235260  1808320  88% /mnt/h
yash@DESKTOP-FIK5SPH:~/infobell$ du
.
yash@DESKTOP-FIK5SPH:~/infobell$ lsvlk
Command 'lsvlk' not found, did you mean:
  command 'lsblk' from deb util-linux (2.37.2-4ubuntu3)
Try: sudo apt install <deb name>
yash@DESKTOP-FIK5SPH:~/infobell$ lsblk
lsblk: failed to access sysfs directory: /sys/dev/block: No such file or directory
yash@DESKTOP-FIK5SPH:~/infobell$ lsblk
lsblk: failed to access sysfs directory: /sys/dev/block: No such file or directory
yash@DESKTOP-FIK5SPH:~/infobell$ chown
chown: missing operand
Try 'chown --help' for more information.
yash@DESKTOP-FIK5SPH:~/infobell$ id
uid=1000(yash) gid=1000(yash) groups=1000(yash),4(adm),20(dialout),24(cdrom),25(floppy),27(sudo),29(audio),30(dvd),116(netdev)
yash@DESKTOP-FIK5SPH:~/infobell$ hostname
```

```
yash@DESKTOP-FIK5SPH: ~/infobell
Command 'lsblk' not found, did you mean:
  command 'lsblk' from deb util-linux (2.37.2-4ubuntu3)
Try: sudo apt install <deb name>
yash@DESKTOP-FIK5SPH:~/infobell$ lsblk
lsblk: failed to access sysfs directory: /sys/dev/block: No such file or directory
yash@DESKTOP-FIK5SPH:~/infobell$ lsblk
lsblk: failed to access sysfs directory: /sys/dev/block: No such file or directory
yash@DESKTOP-FIK5SPH:~/infobell$ chown
chown: missing operand
Try 'chown --help' for more information.
yash@DESKTOP-FIK5SPH:~/infobell$ id
uid=1000(yash) gid=1000(yash) groups=1000(yash),4(adm),20(dialout),24(cdrom),25(floppy),27(sudo),29(audio),30(dip),44(video),46(plugdev),116(netdev)
yash@DESKTOP-FIK5SPH:~/infobell$ hostname
DESKTOP-FIK5SPH
yash@DESKTOP-FIK5SPH:~/infobell$ uname
Linux
yash@DESKTOP-FIK5SPH:~/infobell$
```

Activate Windows  
Go to Settings to activate Windows.

Type here to search

34°C 16:50 12-04-2023