# NAME - VIJAY VISHAL ROLL NO. -2105594

# **ASSIGNMENT - 1**

1. kiit@BT-2105594:~\$ pwd /home/kiit

2.

kiit@BT-2105594:~\$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos thinclient\_drives

3.

kiit@BT-2105594:~\$ who

4.

kiit@BT-2105594:~\$ cd Desktop
kiit@BT-2105594:~/Desktop\$

5. kiit@BT-2105594:~/Desktop\$ mkdir OSLAB

```
kiit@BT-2105594:~/Desktop$ date
Thu Jan 12 13:22:46 IST 2023
```

```
kiit@BT-2105594:~/Desktop$ touch os1.txt
```

8.

```
kiit@BT-2105594:~/Desktop$ echo I am Vijay Vishal. >>os1.txt
kiit@BT-2105594:~/Desktop$ echo I live in Lucknow. >>os1.txt
```

9.

```
kiit@BT-2105594:~/Desktop$ cat os1.txt
I am Vijay Vishal.
I live in Lucknow.
```

10.

```
kiit@BT-2105594:~/Desktop$ touch os1_copy.txt
kiit@BT-2105594:~/Desktop$ cp os1.txt os1_copy.txt
kiit@BT-2105594:~/Desktop$ cat os1_copy.txt
I am Vijay Vishal.
I live in Lucknow.
```

```
kiit@BT-2105594:~/Desktop$ echo I like sports. >>os1_copy.txt
kiit@BT-2105594:~/Desktop$ cat os1_copy.txt
I am Vijay Vishal.
I live in Lucknow.
I like sports.
kiit@BT-2105594:~/Desktop$ wc os1_copy.txt
3 11 53 os1_copy.txt
```

```
kiit@BT-2105594:~/Desktop$ wc -l os1_copy.txt
3 os1_copy.txt
```

```
kiit@BT-2105594:~/Desktop$ wc -w os1_copy.txt
11 os1_copy.txt
```

#### 14.

```
kiit@BT-2105594:~/Desktop$ wc -c os1_copy.txt
53 os1_copy.txt
```

# 15.

```
kiit@BT-2105594:~/Desktop$ head -1 os1_copy.txt
I am Vijay Vishal.
```

#### 16.

```
kiit@BT-2105594:~/Desktop$ tail -2 os1_copy.txt
I live in Lucknow.
I like sports.
```

```
kiit@BT-2105594:~/Desktop$ time
real    0m0.000s
user    0m0.000s
sys    0m0.000s
```

```
kiit@BT-2105594:~/Desktop$ times

0m0.067s 0m0.079s

0m0.024s 0m0.002s
```

```
kiit@BT-2105594:~/Desktop$ mv os1_copy.txt Documents
```

# 20.

```
kiit@BT-2105594:~/Desktop$ rename 's/os1_copy/os1c/' .txt
Command 'rename' not found, but can be installed with:
sudo apt install rename
```

# 21.

```
kiit@BT-2105594:~/Desktop$ tac os1.txt
I live in Lucknow.
I am Vijay Vishal.
```

# 22.

```
kiit@BT-2105594:~/Desktop$ cat os1.txt | cat | tac | cat
I am Vijay Vishal.
I live in Lucknow.
```

```
kiit@BT-2105594:~/Desktop$ cut -dI -f2 os1.txt
am Vijay Vishal.
live in Lucknow.
```

```
kiit@BT-2105594:~/Desktop$ cat os1.txt | grep Vish
I am Vijay Vishal.
```

#### 26.

```
kiit@BT-2105594:~/Desktop$ echo 4thyear | sed 's/4th/2nd/'
2ndyear
```

# 27.

```
kiit@BT-2105594:~/Desktop$ cat os1.txt | tee os1cp1.txt | tac
I live in Lucknow.
I am Vijay Vishal.
kiit@BT-2105594:~/Desktop$ cat os1cp1.txt
I am Vijay Vishal.
I live in Lucknow.
```

```
kiit@BT-2105594:~/Desktop$ cat os1cp1.txt | tr 'ajwy' 'AJWY'
I Am ViJAY VishAl.
I live in LucknoW.
```

```
kiit@BT-2105594:~/Desktop$ echo Bull is black. >>os1cp1.txt
kiit@BT-2105594:~/Desktop$ sort os1cp1.txt | uniq
Bull is black.
I am Vijay Vishal.
I live in Lucknow.
```

```
kiit@BT-2105594:~/Desktop$ od -t x1 os1cp1.txt
00000000 49 20 61 6d 20 56 69 6a 61 79 20 56 69 73 68 61
0000020 6c 2e 0a 49 20 6c 69 76 65 20 69 6e 20 4c 75 63
0000040 6b 6e 6f 77 2e 0a 42 75 6c 6c 20 69 73 20 62 6c
0000060 61 63 6b 2e 0a
0000065
```

#### 31.

```
kiit@BT-2105594:~/Desktop$ od -c os1cp1.txt
000000
                           V
                              i
                \n
                           ι
                               i
0000020
         ι
                    Ι
                                       е
                                                  n
0000040 k
                    W
                           \n
                               В
                                   u
                                                             b
0000060
                k
                       \n
            С
        a
0000065
```

# 32.

```
kiit@BT-2105594:~/Desktop$ sort os1cp1.txt
Bull is black.
I am Vijay Vishal.
I live in Lucknow.
```

```
kiit@BT-2105594:~/Desktop$ gzip os1.txt
kiit@BT-2105594:~/Desktop$ ls
Documents OSLAB Vijay123 os1.txt.gz os1cp.txt os1cp1.txt oslab.txt
```

```
kiit@BT-2105594:~/Desktop$ gunzip os1.txt
kiit@BT-2105594:~/Desktop$ ls
Documents OSLAB Vijay123 os1.txt os1cp.txt os1cp1.txt oslab.txt
```

```
kiit@BT-2105594:~/Desktop$ find . -name "*.txt"
./oslab.txt
./oslcp.txt
./oslcp1.txt
./os1.txt
```

## 36.

```
kiit@BT-2105594:~/Desktop$ locate os1.txt

Command 'locate' not found, but can be installed with:

sudo apt install mlocate
```

# 37.

```
kiit@BT-2105594:~/Desktop$ cal
January 2023
Su Mo Tu We Th Fr Sa
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31
```

```
kiit@BT-2105594:~/Desktop$ gzip os1.txt
kiit@BT-2105594:~/Desktop$ ls
Documents OSLAB Vijay123 os1.txt.gz os1cp.txt os1cp1.txt oslab.txt
kiit@BT-2105594:~/Desktop$ zcat os1.txt
I am Vijay Vishal.
I live in Lucknow.
```

kiit@BT-2105594:~/Desktop\$ df								
Filesystem	1K-blocks	Used	Available	Use%	Mounted on			
/dev/sdb	263174212	2556200	247179856	2%	/			
none	3903928	4	3903924	1%	/mnt/wsl			
tools	293999612	155173684	138825928	53%	/init			
none	3901844	Θ	3901844	0%	/dev			
none	3903928	Θ	3903928	0%	/run			
none	3903928	Θ	3903928	0%	/run/lock			
none	3903928	Θ	3903928	0%	/run/shm			
none	3903928	Θ	3903928	0%	/run/user			
tmpfs	3903928	Θ	3903928	0%	/sys/fs/cgroup			
drivers	293999612	155173684	138825928	53%	/usr/lib/wsl/drivers			
lib	293999612	155173684	138825928	53%	/usr/lib/wsl/lib			
drvfs	293999612	155173684	138825928	53%	/mnt/c			
drvfs	204798972	9907684	194891288	5%	/mnt/d			
drvfs	293999612	162114984	131884628	56%	/mnt/g			

```
kiit@8T-2105594:~/Desktop$ mount
/dev/sdb on / type ext4 (tw_relatime, discard, errors=remount-ro, data=ordered)
none on /mnt/wsl type tmpfs (rw, relatime)
tools on /init type 9p (ro, relatime, dirsync, aname=tools; fmask=022, loose, access=client, msize=65536, trans=fd, rfd=7, wfd=7)
none on /dev type devtmpfs (rw, nosuid, relatime, size=3901844k, nr_inodes=975461, mode=755)
sysfs on /sys type sysfs (rw, nosuid, nodev, noexec, noatime)
proc on /proc type proc (rw, nosuid, nodev, noexec, noatime)
devpts on /dev/pts type devpts (rw, nosuid, nodev, noexec, noatime)
none on /run type tmpfs (rw, nosuid, nodev, noexec, noatime)
none on /run/shm type tmpfs (rw, nosuid, nodev, noexec, noatime)
none on /run/shm type tmpfs (rw, nosuid, nodev, noexec, noatime)
none on /run/ser type tmpfs (rw, nosuid, nodev, noexec, noatime, mode=755)
binfmt_misc on /proc/sys/fs/binfmt_misc type binfmt_misc (rw, relatime)
tmpfs on /sys/fs/cgroup/tup type tmpfs (rw, nosuid, nodev, noexec, relatime, mode=755)
cgroup2 on /sys/fs/cgroup/cpuset type cgroup2 (rw, nosuid, nodev, noexec, relatime, selegate)
cgroup on /sys/fs/cgroup/cpuset type cgroup (rw, nosuid, nodev, noexec, relatime, cpuset)
cgroup on /sys/fs/cgroup/cpuset type cgroup (rw, nosuid, nodev, noexec, relatime, cpuset)
cgroup on /sys/fs/cgroup/placet type cgroup (rw, nosuid, nodev, noexec, relatime, cpuset)
cgroup on /sys/fs/cgroup/placet type cgroup (rw, nosuid, nodev, noexec, relatime, devices)
cgroup on /sys/fs/cgroup/plecics type cgroup (rw, nosuid, nodev, noexec, relatime, memory)
cgroup on /sys/fs/cgroup/plecics type cgroup (rw, nosuid, nodev, noexec, relatime, freezer)
cgroup on /sys/fs/cgroup/petr=event type cgroup (rw, nosuid, nodev, noexec, relatime, freezer)
cgroup on /sys/fs/cgroup/petr=event type cgroup (rw, nosuid, nodev, noexec, relatime, net_cls)
cgroup on /sys/fs/cgroup/petr=event type cgroup (rw, nosuid, nodev, noexec, relatime, net_cls)
cgroup on /sys/fs/cgroup/petr=event type cgroup (rw, nosuid, nodev, noexec, relatime, net_cls)
cgroup on /sys/fs/cgroup/pet
```

```
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: bond0: <BROADCAST,MULTICAST,MASTER> mtu 1500 qdisc noop state DOWN group default qlen 1000 link/ether 42:09:30:15:e9:ef brd ff:ff:ff:ff:ff
3: dummy0: <BROADCAST,NOARP> mtu 1500 qdisc noop state DOWN group default qlen 1000
    link/ether c2:d0:d7:1e:60:93 brd ff:ff:ff:ff:ff
4: tunl0@NONE: <NOARP> mtu 1480 qdisc noop state DOWN group default qlen 1000
    link/ipip 0.0.0.0 brd 0.0.0.0
5: sit0@NONE: <NOARP> mtu 1480 qdisc noop state DOWN group default qlen 1000
    link/sit 0.0.0.0 brd 0.0.0.0
6: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000 link/ether 00:15:5d:97:ba:e2 brd ff:ff:ff:ff:ff
    inet 172.28.10.92/20 brd 172.28.15.255 scope global eth0
    valid_lft forever preferred_lft forever inet6 fe80::215:5dff:fe97:bae2/64 scope link
        valid_lft forever preferred_lft forever
```

```
kiit@BT-2105594:~/Desktop$ mail -s "Hello Babua" vijayvishal0004@outlook.com
Command 'mail' not found, but can be installed with:
sudo apt install mailutils
```

```
kiit@BT-2105594:~/Desktop$ ping amazon.com
PING amazon.com (52.94.236.248) 56(84) bytes of data.
64 bytes from 52.94.236.248 (52.94.236.248): icmp_seq=1 ttl=231 time=299 ms
64 bytes from 52.94.236.248 (52.94.236.248): icmp_seq=2 ttl=231 time=254 ms
64 bytes from 52.94.236.248 (52.94.236.248): icmp_seq=3 ttl=231 time=249 ms
64 bytes from 52.94.236.248 (52.94.236.248): icmp_seq=4 ttl=231 time=313 ms
64 bytes from 52.94.236.248 (52.94.236.248): icmp_seq=5 ttl=231 time=333 ms
64 bytes from 52.94.236.248 (52.94.236.248): icmp_seq=6 ttl=231 time=261 ms
64 bytes from 52.94.236.248 (52.94.236.248): icmp_seq=7 ttl=231 time=276 ms
64 bytes from 52.94.236.248 (52.94.236.248): icmp_seq=8 ttl=231 time=250 ms
64 bytes from 52.94.236.248 (52.94.236.248): icmp_seq=9 ttl=231 time=259 ms
64 bytes from 52.94.236.248 (52.94.236.248): icmp_seq=10 ttl=231 time=342 ms
64 bytes from 52.94.236.248 (52.94.236.248): icmp_seq=11 ttl=231 time=248 ms
^C
--- amazon.com ping statistics ---
38 packets transmitted, 38 received, 0% packet loss, time 37519ms
rtt min/avg/max/mdev = 247.119/281.378/387.724/40.591 ms
```

```
kiit@BT-2105594:~/Desktop$ host amazon.com
amazon.com has address 54.239.28.85
amazon.com has address 52.94.236.248
amazon.com has address 205.251.242.103
amazon.com mail is handled by 5 amazon-smtp.amazon.com.
```

```
kiit@BT-2105594:~/Desktop$ more os1.txt
I am Vijay Vishal.
I live in Lucknow.
```

```
kiit@BT-2105594:~/Desktop$ less os1.txt
 kiit@BT-2105594: ~/Desktop
I am Vijay Vishal.
I live in Lucknow.
os1.txt (END)
```

```
kiit@BT-2105594:~/Desktop$ rmdir OSLAB
kiit@BT-2105594:~/Desktop$ cd OSLAB
-bash: cd: OSLAB: No such file or directory
```



```
kiit@BT-2105594:~$ man mkdir
 kiit@BT-2105594: ~
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
             set SELinux security context of each created directory to the default type
      -Z
      --context[=CTX]
             like -Z, or if CTX is specified then set the SELinux or SMACK security context to CTX
```

```
kiit@BT-2105594:~$ time
real
        0m0.000s
        0m0.000s
user
        0m0.000s
sys
kiit@BT-2105594:~$ cal
    January 2023
Su Mo Tu We Th Fr Sa
1 2 3 4 5 6 7
8 9 10 11 <mark>12</mark> 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31
kiit@BT-2105594:~$ clear
```

```
kiit@BT-2105594:~$
```

```
kiit@BT-2105594:~$ exit
```