## NAME - ROSHAN ARYAN ROLL-2105570 ASSINGMENT 1

11.

1. kiit@BT-2105570:~\$ pwd /home/kiit kiit@8T-2105570:~\$ ls

Desktop Downloads Pictures Templates hello hello.c.save hello.c.save.2 hello.c.save.4 oslab prgrml.c

Documents Music Public Videos hello.c hello.c.save.1 hello.c.save.3 lab530aug2022 prgrm1 thinclient kiit@BT-2105570:~\$ who kiit@BT-2105570:~\$ cd Desktop kiit@BT-2105570:~/Desktop\$ mkdir oslab kiit@BT-2105570:~/Desktop\$ date Thu Jan 12 21:16:27 IST 2023 kiit@BT-2105570:~/Desktop\$ touch OS1.txt kiit@BT-2105570:~/Desktop\$ echo I am roshan aryan. >>0S1.txt kiit@BT-2105570:~/Desktop\$ echo I live in jharkhand. >>0S1.txt kiit@BT-2105570:~/Desktop\$ cat OS1\_1.txt I am roshan aryan. I live in jharkhand. kiit@BT-2105570:~/Desktop\$ touch OS1\_1.txt kiit@BT-2105570:~/Desktop\$ cp OS1.txt OS1\_1.txt kiit@BT-2105570:~/Desktop\$ cat OS1\_1.txt I am roshan aryan. I live in jharkhand.

```
kiit@BT-2105570:~/Desktop$ echo I like football. >>OS1_1.txt
kiit@BT-2105570:~/Desktop$ cat OS1_1.txt
I am roshan aryan.
I live in jharkhand.
I like football.
kiit@BT-2105570:~/Desktop$ wc -l OS1_1.txt
3 OS1_1.txt
13.
kiit@BT-2105570:~/Desktop$ wc -w OS1_1.txt
11 OS1_1.txt
14.
kiit@BT-2105570:~/Desktop$ wc -c OS1_1.txt
57 OS1_1.txt
15.
kiit@BT-2105570:~/Desktop$ head -1 OS1_1.txt
I am roshan aryan.
kiit@BT-2105570:~/Desktop$ tail -2 OS1_1.txt
I live in jharkhand.
I like football.
kiit@BT-2105570:~/Desktop$ time
real
         0m0.000s
         0m0.000s
user
         0m0.000s
SVS
kiit@BT-2105570:~/Desktop$ times
0m0.089s 0m0.071s
0m0.017s 0m0.002s
19.
kiit@BT-2105570:~/Desktop$ mv OS1_1.txt Documents
kiit@BT-2105570:~/Desktop$ rename 's/OS1_1/OS1c/' .txt
 Command 'rename' not found, but can be installed with:
 sudo apt install rename
21.
kiit@BT-2105570:~/Desktop$ tac OS1.txt
I live in jharkhand.
I am roshan aryan.
22.
kiit@BT-2105570:~/Desktop$ cat OS1.txt | cat | tac | tac | cat
I am roshan aryan.
I live in jharkhand.
23.
```

```
kiit@BT-2105570:~/Desktop$ cut -dI -f2 OS1.txt
 am roshan arvan.
 live in jharkhand.
24.
kiit@BT-2105570:~/Desktop$ cat OS1.txt | grep rosh
kiit@BT-2105570:~/Desktop$ touch OS1_2.txt
kiit@BT-2105570:~/Desktop$ cp OS1.txt OS1_2.txt
kiit@BT-2105570:~/Desktop$ echo I like football. >>0S1_2.txt
kiit@BT-2105570:~/Desktop$ comm OS1.txt OS1_2.txt
                I am roshan aryan.
               I live in jharkhand.
        I like football.
comm: file 2 is not in sorted order
kiit@BT-2105570:~/Desktop$ echo 4thyear | sed 's/4th/2nd/'
2ndvear
27.
kiit@BT-2105570:~/Desktop$ cat OS1.txt | tee OS1_2.txt | tac
I live in jharkhand.
I am roshan aryan.
kiit@BT-2105570:~/Desktop$ cat OS1_2.txt
I am roshan aryan.
I live in jharkhand.
kiit@BT-2105570:~/Desktop$ cat OS1_2.txt | tr 'akhv' 'AKHV'
I Am rosHAn AryAn.
I liVe in jHArKHAnd.
kiit@BT-2105570:~/Desktop$ echo Puppy is cute. >>0S1_2.txt
kiit@BT-2105570:~/Desktop$ sort OS1_2.txt | uniq
I am roshan aryan.
I live in jharkhand.
Puppy is cute.
30.
kiit@BT-2105570:~/Desktop$ od -t x1 OS1_2.txt
0000000 49 20 61 6d 20 72 6f 73 68 61 6e 20 61 72 79 61
0000020 6e 2e 0a 49 20 6c 69 76 65 20 69 6e 20 6a 68 61
0000040 72 6b 68 61 6e 64 2e 0a 50 75 70 70 79 20 69 73
0000060 20 63 75 74 65 2e 0a
0000067
31.
      2105570:~/Desktop$ od -c OS1_2.txt
     I
000000
             a m
                      r
                        0
                           s
                              h
                                                   a
0000020
                Ι
                         i
                                    i
0000040
          k h a
                      d
                                       р
0000060
0000067
```

```
kiit@BT-2105570:~/Desktop$ sort OS1_2.txt
 I am roshan aryan.
 I live in jharkhand.
Puppy is cute.
33.
kiit@BT-2105570:~/Desktop$ gzip OS1.txt
kiit@BT-2105570:~/Desktop$ ls
Documents OS1.txt.gz OS1_2.txt OSLAB Roshan os1.txt osl.txt osl_copy.txt oslab
   kiit@BT-2105570:~/Desktop$ gunzip OS1.txt
kiit@BT-2105570:~/Desktop$ ls
Documents OS1.txt OS1_2.txt OSLAB Roshan os1.txt osl.txt osl_copy.txt oslab
kiit@BT-2105570:~/Desktop$ find . -name "*.txt"
 ./osl.txt
 ./0S1.txt
 ./0S1_2.txt
 ./osl_copy.txt
 ./os1.txt
36.
kiit@BT-2105570:~/Desktop$ locate OS1.txt
Command 'locate' not found, but can be installed with:
sudo apt install mlocate
kiit@BT-2105570:~/Desktop$ cal
      January 2023
Su Mo Tu We Th Fr Sa
     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
38.
kiit@BT-2105570:~/Desktop$ gzip OS1.txt
kiit@BT-2105570:~/Desktop$ ls
Documents OS1.txt.gz OS1_2.txt OSLAB Roshan os1.txt osl.txt osl_copy.txt oslab kiit@BT-2105570:~/Desktop$ zcat OS1.txt
I am roshan aryan.
I live in jharkhand.
```

```
kiit@BT-2105570:~/Desktop$ df
               1K-blocks
                               Used Available Use% Mounted on
Filesystem
/dev/sdb
               263174212
                            2718988 247017068
                                                2% /
                 3908024
                                  4
                                      3908020
                                                1% /mnt/wsl
none
                                               70% /init
tools
               183407612 127200352
                                     56207260
                                                0% /dev
                 3905940
                                 0
                                      3905940
none
                 3908024
                                  0
                                      3908024
                                                0% /run
none
                 3908024
                                 0
                                      3908024
                                                0% /run/lock
none
                                                0% /run/shm
                 3908024
                                 0
                                      3908024
none
                 3908024
                                  0
                                    3908024
                                                0% /run/user
none
                 3908024
                                  0
                                                0% /sys/fs/cgroup
tmpfs
                                      3908024
               183407612 127200352
                                     56207260
                                               70% /usr/lib/wsl/drivers
drivers
lib
               183407612 127200352
                                     56207260
                                               70% /usr/lib/wsl/lib
drvfs
               183407612 127200352
                                     56207260
                                               70% /mnt/c
               315390972
                             106800 315284172
                                                1% /mnt/d
drvfs
               183407612 130010716 53396896
                                               71% /mnt/g
drvfs
```

## 40.

```
### Accessed to Access to 
    drvfs on /mnt/c type 9p (rw,noatime,dirsync,aname=drvfs;path=C:\;uid=1000;gid=1000;symlinkroot=/mnt/,mmap,access=client,msize=262144,trans=virtio)
   trans=virtio)
drvfs on /mnt/d type 9p (rw,noatime,dirsync,aname=drvfs;path=D:\;uid=1000;gid=1000;symlinkroot=/mnt/,mmap,access=client,msize=262144,
trans=virtio)
drvfs on /mnt/g type 9p (rw,noatime,dirsync,aname=drvfs;path=G:\;uid=1000;gid=1000;symlinkroot=/mnt/,mmap,access=client,msize=262144,
trans=virtio)
```

## 41

```
-2105570:~/Desktop$ ip a
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 7a:44:b4:60:e4:24 brd ff:ff:ff:ff:ff
3: dummy0: <BROADCAST,NOARP> mtu 1500 qdisc noop state DOWN group default qlen 1000
     link/ether 96:dc:c6:6b:f4:04 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:c6:4b:e1 brd ff:ff:ff:ff:ff
     inet 172.19.220.130/20 brd 172.19.223.255 scope global eth0
     valid_lft forever preferred_lft forever inet6 fe80::215:5dff:fec6:4be1/64 scope link
         valid_lft forever preferred_lft forever
```

```
42
```

```
kiit@BT-2105570:~/Desktop$ mail -s "Hello Sir" roshanaryan2003@gmail.com

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

sudo apt install mailutils
```

43.

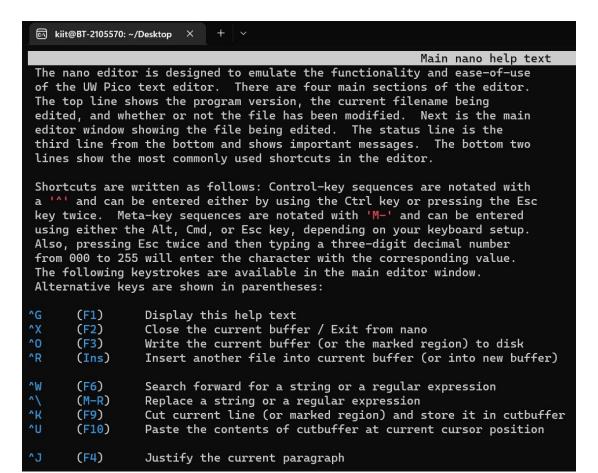
```
kiit@BT-2105570:~/Desktop$ ping flipkart.com
PING flipkart.com (163.53.76.86) 56(84) bytes of data.
64 bytes from 163.53.76.86 (163.53.76.86): icmp_seq=1 ttl=53 time=67.5 ms
64 bytes from 163.53.76.86 (163.53.76.86): icmp_seq=2 ttl=53 time=51.0 ms
64 bytes from 163.53.76.86 (163.53.76.86): icmp_seq=3 ttl=53 time=66.3 ms
64 bytes from 163.53.76.86 (163.53.76.86): icmp_seq=4 ttl=53 time=60.9 ms
64 bytes from 163.53.76.86 (163.53.76.86): icmp_seq=6 ttl=53 time=99.9 ms
64 bytes from 163.53.76.86 (163.53.76.86): icmp_seq=7 ttl=53 time=73.6 ms
^C
--- flipkart.com ping statistics ---
7 packets transmitted, 6 received, 14.2857% packet loss, time 6370ms
rtt min/avg/max/mdev = 50.995/69.879/99.905/15.111 ms
```

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```
kiit@BT-2105570:~/Desktop$ host flipkart.com
flipkart.com has address 163.53.78.110
flipkart.com mail is handled by 10 aspmx2.googlemail.com.
flipkart.com mail is handled by 10 aspmx3.googlemail.com.
flipkart.com mail is handled by 5 alt1.aspmx.l.google.com.
flipkart.com mail is handled by 5 alt2.aspmx.l.google.com.
flipkart.com mail is handled by 5 aspmx.l.google.com.
flipkart.com mail is handled by 1 eu-smtp-inbound-2.mimecast.com.
flipkart.com mail is handled by 1 eu-smtp-inbound-1.mimecast.com.
flipkart.com mail is handled by 1 eu-smtp-inbound-1.mimecast.com.
```

```
kiit@BT-2105570:~/Desktop$ more OS1_2.txt
I am roshan aryan.
I live in jharkhand.
Puppy is cute.
```

```
kiit@BT-2105570: ~/Desktop
I am roshan aryan.
I live in jharkhand.
Puppy is cute.
OS1_2.txt (END)
kiit@BT-2105570:~/Desktop$ rmdir oslab7
kiit@BT-2105570:~/Desktop$ cd oslab7
-bash: cd: oslab7: No such file or directory
kiit@BT-2105570:~/Desktop$ nano
```



## 48

```
kiit@BT-2105570: ~/Desktop × +
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
      --help display this help and exit
      --version
             output version information and exit
Manual page mkdir(1) line 1 (press h for help or q to quit)
```

```
kiit@BT-2105570:~/Desktop$ time

real     0m0.000s
user     0m0.000s
sys     0m0.000s
kiit@BT-2105570:~/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-2105570:~/Desktop$ clear
```

kiit@BT-2105570:~/Desktop\$

50.

kiit@BT-2105570:~/Desktop\$ exit