# Lab Task 1

# Question 1

#### 1)Ls

#### <u>2)Man</u>

```
izaan@ubuntu:~$ man -f ls
ls (1) - list directory contents
izaan@ubuntu:~$ ■
```

#### 3) <u>Pwd</u>

```
izaan@ubuntu:~/Desktop$ ls
izaan@ubuntu:~/Desktop$ pwd
/home/izaan/Desktop
izaan@ubuntu:~/besktop
izaan@ubuntu:~/Desktop$
```

# 4) <u>Less</u>

```
izaan@ubuntu:~$ less temp.txt
temp.txt: No such file or directory
izaan@ubuntu:~$
```

# 5) <u>Uname</u>



# 6) Hostname



# 7) <u>CD</u>

```
izaan@ubuntu: ~/Desktop Q = - □ 😢

izaan@ubuntu: ~$ ls

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izaan@ubuntu: ~$ cd Desktop/
izaan@ubuntu: ~/Desktop$
```

# 8) Mkdir



# 9) Rmdir

```
izaan@ubuntu:~/Music$ rmdir izaan1
izaan@ubuntu:~/Music$ ls
izaan
izaan@ubuntu:~/Music$
```

# 10) <u>Touch</u>

```
izaan@ubuntu:~/Music$ rmdir izaan1
izaan@ubuntu:~/Music$ ls
izaan
izaan@ubuntu:~/Music$ touch blankfile
izaan@ubuntu:~/Music$ ls
blankfile izaan
izaan@ubuntu:~/Music$
```

# 11) <u>Grep</u>

# 12) <u>Cat</u>

```
izaan@ubuntu:~/Music Q = - □ 🚫

izaan@ubuntu:~$ ls

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izaan@ubuntu:~$ cd Music/
izaan@ubuntu:~/Music$ cat <blanfile
bash: blanfile: No such file or directory
izaan@ubuntu:~/Music$ cat <blankfile
izaan
izaan@ubuntu:~/Music$
```

# 13) <u>Sort</u>

```
izaan@ubuntu:~/Music

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

Sudo apt install ucommon-utils

izaan@ubuntu:~/Music$ cat izaan/
cat: izaan/: Is a directory
izaan@ubuntu:~/Music$ cat izaan
cat: izaan: Is a directory
izaan@ubuntu:~/Music$ touch text.txt
izaan@ubuntu:~/Music$ nano text.txt
pizaan@ubuntu:~/Music$
izaan@ubuntu:~/Music$
izaan@u
```

#### 14) Head and tail

```
izaan@ubuntu:~/Music Q = - D S

izaan@ubuntu:~$ ls
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izaan@ubuntu:~\Music$ c
C: command not found
dizaan@ubuntu:~\Music$ cd text.txt/
bash: cd: text.txt/: Not a directory
izaan@ubuntu:~\Music$ head text.txt

9
8
7
3
4
11
2
3
5
6
izaan@ubuntu:~\Music$ tail text.txt

8
7
3
4
11
2
3
5
6
izaan@ubuntu:~\Music$
```

#### 15) Stat

```
zaan@ubuntu:~/Music$ stat text.txt
  File: text.txt
Size: 21
Device: 805h/2053d
                                           IO Block: 4096 regular file
                        Blocks: 8
                        Inode: 524487
                                           Links: 1
Access: (0664/-rw-rw-r--) Uid: ( 1000/
                                          izaan)
                                                    Gid: ( 1000/
                                                                   izaan)
Access: 2022-09-03 03:47:45.062562799 -0700
Modify: 2022-09-03 03:47:39.653955053 -0700
Change: 2022-09-03 03:47:39.653955053 -0700
Birth: -
izaan@ubuntu:~/Music$
```

#### 16) <u>Free</u>

```
izaan@ubuntu: ~/Music
                                                             Q =
izaan@ubuntu:~/Music$ free
             total
                          used
                                     free
                                                 shared buff/cache
                                                                       available
Mem:
           1987724
                         976016
                                    364488
                                                   2976
                                                             647220
                                                                          854736
           1918356
                             0
                                    1918356
izaan@ubuntu:~/Music$
```

#### 17) Uptime

```
izaan@ubuntu:~/Music$ uptime
03:57:51 up 1:21, 1 user, load average: 0.14, 0.21, 0.24
izaan@ubuntu:~/Music$ cd ..
izaan@ubuntu:~$ uptime
03:58:04 up 1:21, 1 user, load average: 0.12, 0.20, 0.24
izaan@ubuntu:~$
```

#### 18) <u>Top</u>

```
top - 03:59:06 up 1:22, 1 user, load average: 0.43, 0.26, 0.26
Tasks: 287 total, 1 running, 286 sleeping, 0 stopped, 0 zombie
%Cpu(s): 1.2 us, 1.2 sy, 0.0 ni, 97.5 id, 0.0 wa, 0.0 hi, 0.2 si, 0.0 st
MiB Mem : 1941.1 total, 354.8 free, 953.9 used, 632.5 buff/cache
MiB Swap: 1873.4 total, 1873.4 free, 0.0 used. 833.9 avail Mem
                                                                                                        SHR S %CPU %MEM
                                           PR NI
                                                                  VIRT
      1618 izaan
1444 izaan
3323 root
3368 izaan
2597 izaan
384 root
                                                                                                                                                         1:52.75 gnome-s+
1:05.87 Xorg
                                          20
20
                                                                                                  105328
                                                                                                                                        12.9
3.5
0.0
                                                             4028908
                                                                                256464
                                                              303668
                                                                                                   41196 S
0 I
                                                                                 69172
                                          20
20
                                                                                                                                                        0:02.72 kworker+
0:00.20 top
                                                                                                  0 I
3236 R
48256 S
0 S
30380 S
38888 S
                                                                 20624
                                                                                                                                         0.2
                                                                                                                                                        0:15.84 nautilus
0:02.66 irq/16-+
0:21.73 vmtoolsd
0:03.95 gnome-t+
0:04.12 systemd
0:00.03 kthreadd
                                         3.8
0.0
2.3
                                                      0 1209776
                                                                                75228
      1799 izaan
3285 izaan
                                                              304568
                                                                                  45568
                                                                                   51428
                                                              823292
             1 root
2 root
3 root
4 root
                                                                                                                           0.0
                                                                                                                                         0.6
                                                               101952
                                                                                  11256
                                                                                                      8028
                                                                                                                                                        0:00.00 rcu_gp

0:00.00 rcu_par+

0:00.00 kworker+

0:00.00 mm_perc+

0:00.00 rcu_tas+
                                                                                                                                          0.0
                                                                                                                            0.0
            6 root
9 root
10 root
                                                                                                                           0.0
                                                                                                                                         0.0
                                                                                                                                                         0:00.00 rcu_tas+
0:00.27 ksoftir+
             11 root
```

#### 19) Ifconfig

#### 20) Gzip

```
izaan@ubuntu:~{ ls

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izaan@ubuntu:~{ cd Music/
izaan@ubuntu:~/Music$ ls

blankfile izaan text.txt
izaan@ubuntu:~/Music$ gzip text.txt
izaan@ubuntu:~/Music$ ls

blankfile izaan text.txt.gz
izaan@ubuntu:~/Music$
```

#### 21) Gunzip

```
izaan@ubuntu:~/Music$ gunzip text.txt.gz
izaan@ubuntu:~/Music$ ls
blankfile izaan text.txt
izaan@ubuntu:~/Music$
```

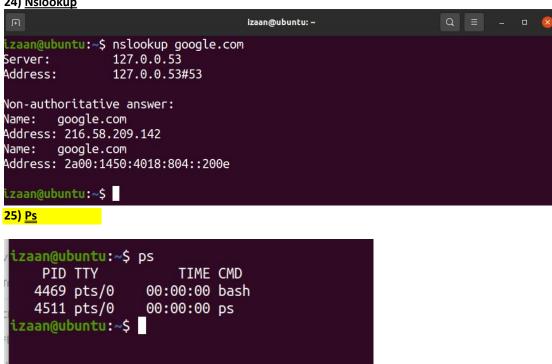
#### 22) Ping

```
izaan@ubuntu: ~
izaan@ubuntu:~/Music$ cd ..
izaan@ubuntu:~$ ping google.com
PING google.com (216.58.209.142) 56(84) bytes of data.
64 bytes from arn09s05-in-f14.1e100.net (216.58.209.142): icmp_seq=1 ttl=128 tim
e=201 ms
64 bytes from arn09s05-in-f14.1e100.net (216.58.209.142): icmp_seq=2 ttl=128 tim
e=107 ms
64 bytes from arn09s05-in-f14.1e100.net (216.58.209.142): icmp_seq=3 ttl=128 tim
e=150 ms
64 bytes from arn09s05-in-f14.1e100.net (216.58.209.142): icmp_seq=4 ttl=128 tim
e=788 ms
64 bytes from arn09s05-in-f14.1e100.net (216.58.209.142): icmp_seq=5 ttl=128 tim
e=174 ms
64 bytes from arn09s05-in-f14.1e100.net (216.58.209.142): icmp_seq=7 ttl=128 tim
e=115 ms
64 bytes from arn09s05-in-f14.1e100.net (216.58.209.142): icmp_seq=8 ttl=128 tim
e=134 ms
64 bytes from arn09s05-in-f14.1e100.net (216.58.209.142): icmp_seq=9 ttl=128 tim
e=81.3 ms
64 bytes from arn09s05-in-f14.1e100.net (216.58.209.142): icmp_seq=10 ttl=128 ti
me=86.2 ms
64 bytes from arn09s05-in-f14.1e100.net (216.58.209.142): icmp_seq=11 ttl=128 ti
```

#### 23) Netstat

<b>F</b>					izaan@ubunt	u: ~		Q		<u>=</u>		8
tzaan@ubuntu:~\$ netstat												
Active Internet connections (w/o servers)												
Proto	Recv-Q	Se	end-Q Loca	l Address	Foreign Address				State			
udp	0		0 ubun	tu:bootpc		192.1	68.10.254	bootps	EST	ABL]	SHE	D
Active UNIX domain sockets (w/o servers)												
Proto	RefCnt	FI	lags	Туре	State		I-Node	Path				
unix	2	[	]	DGRAM			47771	/run/use	r/10	00/5	syst	tem
d/notify												
unix	4	[	]	DGRAM			28892	/run/sys	temd	/not	ify	/
	2	[	]	DGRAM			28906	/run/sys	temd	/jou	ırna	l/
syslog												
unix		[	1	DGRAM			28916	/run/sys	temd	/jou	ırna	ıl/
dev-l												
unix		[	]	DGRAM			28920	/run/sys	temd	/jou	ırna	il/
socket												
unix		[	1	STREAM	CONNECT		52421					
unix	3	[	]	STREAM	CONNECT	3000	48612	/run/use				
unix	3	Ī	]	STREAM	CONNECT		51431	@/tmp/db				
unix	3	[		STREAM	CONNECT	ED	40919	/run/dbu	s/sy	ster	ո_bu	IS_
socket												
unix	3	Ī	1	STREAM	CONNECT		47775		211111			
unix	3	I		STREAM	CONNECT	ED	52229	/run/sys	temd	/jou	ırna	ıl/

24) Nslookup



# **Question 2**

```
izaan@ubuntu: ~/Music
izaan
Batch 20
5<mark>A</mark>
"izaan.txt" [readonly] 3L, 19C
                                                                                   3,2
                                                                                                      All
                                            izaan@ubuntu: ~/Music
p20-0613
<u>p</u>200613@pwr.nu.edu.pk
                                                                                 3,0-1
"P20-0613.txt" 3L, 32C
                                                                                                    All
```