ASSIGNMENT 1

LINUX COMMANDS

1.LS

```
~/Documents
❯ ls
bills    certificates    EBC    FILES    labels    mobile    'project images'    SEM3    SEM4    SEM5    testing    tickets    vit    vivek
```

2.CD

```
~/Documents
❯ cd mobile
~/Documents/mobile
❯
```

3.MKDIR

```
~/Documents/mobile
❯ ls
IMG20220812135246.jpg    IMG20220812135257.jpg    test
~/Documents/mobile
❯
```

4.TOUCH

```
~/Documents/mobile
❯ touch testfile.txt
~/Documents/mobile
❯ ls
IMG20220812135246.jpg    IMG20220812135257.jpg    test    testfile.txt
```

5.IFCONFIG

```
~/Documents/mobile
❯ sudo ifconfig
[sudo] password for shivam256:
enp2s0: flags=4099<UP,BROADCAST,MULTICAST>  mtu 1500
        ether 54:bf:64:47:ec:6d  txqueuelen 1000  (Ethernet)
        RX packets 0  bytes 0 (0.0 B)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 0  bytes 0 (0.0 B)
        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 6873  bytes 697357 (697.3 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 6873  bytes 697357 (697.3 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

wlp3s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.43.229  netmask 255.255.255.0  broadcast 192.168.43.255
        inet6 fe80::f9fb:de11:defc:a1b7  prefixlen 64  scopeid 0x20<link>
        ether dc:a2:66:16:90:6b  txqueuelen 1000  (Ethernet)
        RX packets 134048  bytes 140744097 (140.7 MB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 59621  bytes 15599848 (15.5 MB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
```

6.DATE

```
~/Documents/mobile
> date
Tuesday 23 August 2022 10:58:35 AM IST
```

7.RM

```
~/Documents/mobile
> ls
IMG20220812135246.jpg   IMG20220812135257.jpg   test   testfile.txt
~/Documents/mobile
> rm testfile.txt
~/Documents/mobile
> ls
IMG20220812135246.jpg   IMG20220812135257.jpg   test
~/Documents/mobile
>
```

8.Neofetch

```
~/Documents/mobile
> neofetch
          .-/+oossssoo+/-.              shivam256@shivam256
      `:+ssssssssssssssssss+:`          ------------------
    -+ssssssssssssssssssyyssss+-        OS: Ubuntu 22.04.1 LTS x86_64
  .osssssssssssssssssssdMMMNysssso.     Host: Inspiron 5570
 /ssssssssssshdmmNNmmyNMMMMhssssss/     Kernel: 5.15.0-46-generic
+ssssssssshmydMMMMMMMNddddyssssssss+    Uptime: 2 hours, 21 mins
/sssssssshNMMMyhhyyyyhmNMMMNhssssssss/  Packages: 3235 (dpkg), 44 (snap)
.ssssssssdMMMNhsssssssssssshNMMMdsssssss. Shell: zsh 5.8.1
+sssshhhyNMMNysssssssssssssyNMMMysssssss+ Resolution: 1920x1080
ossyNMMMNyMMhsssssssssssssshmmmhssssssso  DE: GNOME
ossyNMMMNyMMhsssssssssssssshmmmhssssssso  WM: Mutter
+sssshhhyNMMNysssssssssssssyNMMMysssssss+ WM Theme: Colloid-Dark-Dracula
.ssssssssdMMMNhsssssssssssshNMMMdsssssss. Theme: WhiteSur-dark [GTK2/3]
 /sssssssshNMMMyhhyyyyhdNMMMNhssssssss/   Icons: Papirus [GTK2/3]
  +sssssssssdmydMMMMMMMMddddyssssssss+    Terminal: tilix
   /ssssssssssshdmNNNNmyNMMMMhssssss/     CPU: Intel i5-8250U (8) @ 3.400GHz
    .ossssssssssssssssssdMMMNysssso.      GPU: AMD ATI Radeon R7 M260/M265 / M340/M360 / M440/M445 / 530/535 / 620/625 Mobile
      -+sssssssssssssssssyyyssss+-        GPU: Intel UHD Graphics 620
       `:+ssssssssssssssssss+:`          Memory: 5291MiB / 15897MiB
          .-/+oossssoo+/-.
```

9.ECHO

```
~/Documents/mobile
> echo "hello this is me"
hello this is me
```

10.MAN

```
CAT(1)                                                          User Commands

NAME
       cat - concatenate files and print on the standard output

SYNOPSIS
       cat [OPTION]... [FILE]...

DESCRIPTION
       Concatenate FILE(s) to standard output.

       With no FILE, or when FILE is -, read standard input.

       -A, --show-all
              equivalent to -vET

       -b, --number-nonblank
              number nonempty output lines, overrides -n

       -e     equivalent to -vE

       -E, --show-ends
              display $ at end of each line

       -n, --number
              number all output lines

       -s, --squeeze-blank
              suppress repeated empty output lines

       -t     equivalent to -vT

       -T, --show-tabs
              display TAB characters as ^I

       -u     (ignored)

       -v, --show-nonprinting
              use ^ and M- notation, except for LFD and TAB
```

11.CAT

```
~/Documents/mobile
❯ cat textfile.txt
hello i am here
```

12.NETSTAT

```
~/Documents/mobile
❯ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address          Foreign Address          State
tcp        0      0 shivam256:49158        ec2-54-243-148-11:https  ESTABLISHED
tcp        0      0 shivam256:47428        13.107.42.14:https       ESTABLISHED
tcp        0      0 shivam256:35130        204.79.197.219:https     ESTABLISHED
tcp        0      0 shivam256:52444        a23-223-244-91.de:https  ESTABLISHED
tcp        0      0 shivam256:48106        a23-223-244-123.d:https  ESTABLISHED
tcp        0      0 shivam256:54640        104.208.16.89:https      ESTABLISHED
tcp        0      0 shivam256:44864        a-0001.a-msedge.n:https  ESTABLISHED
tcp        0      0 shivam256:52446        a23-223-244-91.de:https  ESTABLISHED
tcp        0      0 shivam256:39928        52.231.207.240:https     ESTABLISHED
tcp        0      0 shivam256:48104        a23-223-244-123.d:https  ESTABLISHED
tcp        0      0 shivam256:52832        ec2-34-237-73-95.:https   ESTABLISHED
tcp        0      0 shivam256:37194        bg-in-f94.1e100.n:https  ESTABLISHED
tcp        0      0 shivam256:58158        20.198.119.84:https      ESTABLISHED
tcp        0      0 shivam256:43218        172.64.154.162:https     ESTABLISHED
tcp        0      0 shivam256:46356        52.182.143.210:https     ESTABLISHED
tcp        0      0 shivam256:46350        52.182.143.210:https     ESTABLISHED
tcp        0      0 shivam256:40528        204.79.197.239:https     ESTABLISHED
tcp        0      0 shivam256:37192        bg-in-f94.1e100.n:https  ESTABLISHED
tcp        0      0 shivam256:46352        52.182.143.210:https     ESTABLISHED
tcp        0      0 shivam256:46348        52.182.143.210:https     TIME_WAIT
tcp        0      0 shivam256:36780        151.101.153.229:https    ESTABLISHED
tcp        0      0 shivam256:46354        52.182.143.210:https     ESTABLISHED
tcp        0      0 shivam256:39926        52.231.207.240:https     ESTABLISHED
tcp        0      0 shivam256:39464        server-54-182-0-5:https  ESTABLISHED
tcp        0      0 shivam256:44866        a-0001.a-msedge.n:https  ESTABLISHED
tcp        0      0 shivam256:44862        a-0001.a-msedge.n:https  ESTABLISHED
tcp        0      0 shivam256:44860        a-0001.a-msedge.n:https  ESTABLISHED
tcp        0      0 shivam256:38120        bom07s30-in-f14.1:https  ESTABLISHED
tcp        0      0 shivam256:46358        52.182.143.210:https     ESTABLISHED
tcp        0      0 shivam256:50560        103.252.142.19:https     ESTABLISHED
tcp        0      0 shivam256:42978        a23-215-215-107.d:https  ESTABLISHED
tcp        0      0 shivam256:35128        204.79.197.219:https     ESTABLISHED
tcp        0      0 shivam256:44870        a-0001.a-msedge.n:https  ESTABLISHED
```

13. NSLOOKUP

```
✗ 130   ~/Documents/mobile
> nslookup www.google.com
Server:        127.0.0.53
Address:       127.0.0.53#53

Non-authoritative answer:
Name:   www.google.com
Address: 142.250.183.36
Name:   www.google.com
Address: 2404:6800:4009:821::2004
```

14. PING

```
~/Documents/mobile
> ping google.com
PING google.com (216.58.203.46) 56(84) bytes of data.
64 bytes from bom12s05-in-f14.1e100.net (216.58.203.46): icmp_seq=1 ttl=114 time=226 ms
64 bytes from hkg12s10-in-f14.1e100.net (216.58.203.46): icmp_seq=2 ttl=114 time=638 ms
64 bytes from bom12s05-in-f14.1e100.net (216.58.203.46): icmp_seq=3 ttl=114 time=301 ms
64 bytes from hkg12s10-in-f14.1e100.net (216.58.203.46): icmp_seq=4 ttl=114 time=73.0 ms
64 bytes from hkg12s10-in-f14.1e100.net (216.58.203.46): icmp_seq=5 ttl=114 time=297 ms
64 bytes from hkg12s10-in-f14.1e100.net (216.58.203.46): icmp_seq=6 ttl=114 time=71.4 ms
64 bytes from bom12s05-in-f14.1e100.net (216.58.203.46): icmp_seq=7 ttl=114 time=117 ms
64 bytes from hkg12s10-in-f46.1e100.net (216.58.203.46): icmp_seq=8 ttl=114 time=78.2 ms
64 bytes from hkg12s10-in-f14.1e100.net (216.58.203.46): icmp_seq=9 ttl=114 time=234 ms
64 bytes from bom12s05-in-f14.1e100.net (216.58.203.46): icmp_seq=10 ttl=114 time=53.5 ms
64 bytes from bom12s05-in-f14.1e100.net (216.58.203.46): icmp_seq=11 ttl=114 time=455 ms
64 bytes from hkg12s10-in-f46.1e100.net (216.58.203.46): icmp_seq=12 ttl=114 time=655 ms
64 bytes from hkg12s10-in-f14.1e100.net (216.58.203.46): icmp_seq=13 ttl=114 time=684 ms
64 bytes from bom12s05-in-f14.1e100.net (216.58.203.46): icmp_seq=14 ttl=114 time=494 ms
64 bytes from hkg12s10-in-f14.1e100.net (216.58.203.46): icmp_seq=15 ttl=114 time=347 ms
64 bytes from hkg12s10-in-f46.1e100.net (216.58.203.46): icmp_seq=16 ttl=114 time=163 ms
^C
--- google.com ping statistics ---
16 packets transmitted, 16 received, 0% packet loss, time 15013ms
rtt min/avg/max/mdev = 53.464/305.502/684.076/213.203 ms
```

15.UPTIME

```
~/Documents/mobile
> uptime
11:09:57 up  2:29,  1 user,  load average: 1.24, 1.58, 1.72
```

16 TOP

```
top - 11:20:16 up  2:39,  1 user,  load average: 1.90, 1.31, 1.46
Tasks: 310 total,    1 running, 308 sleeping,    0 stopped,    1 zombie
%Cpu(s):  2.6 us,  2.6 sy,  0.0 ni, 94.9 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :  15897.9 total,   3787.0 free,   4436.7 used,   7674.2 buff/cache
MiB Swap:   2048.0 total,   2048.0 free,      0.0 used.  10159.0 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
 449833 shivam2+  20   0   13364   4204   3344 R  11.1   0.0   0:00.04 top
  11844 shivam2+  39  19  792168 110176  19276 S   5.6   0.7   1:15.26 tracker-miner-f
  14529 shivam2+  20   0 6553188 405768 117416 S   5.6   2.5   9:57.45 gnome-shell
 315191 shivam2+  20   0   99.7g 171108 100332 S   5.6   1.1   2:11.52 komorebi
 370392 root      20   0       0      0      0 I   5.6   0.0   0:02.95 kworker/u16:1-i915
 438191 root      20   0       0      0      0 I   5.6   0.0   0:00.65 kworker/5:0-events
      1 root      20   0  167780  12652   8008 S   0.0   0.1   0:04.42 systemd
      2 root      20   0       0      0      0 S   0.0   0.0   0:00.01 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 netns
      7 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   0:00.76 ksoftirqd/0
     14 root      20   0       0      0      0 I   0.0   0.0   0:14.71 rcu_sched
     15 root      rt   0       0      0      0 S   0.0   0.0   0:00.04 migration/0
     16 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/0
     17 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/0
     18 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/1
     19 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/1
     20 root      rt   0       0      0      0 S   0.0   0.0   0:00.20 migration/1
     21 root      20   0       0      0      0 S   0.0   0.0   0:00.42 ksoftirqd/1
     23 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/1:0H-kblockd
     24 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/2
     25 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/2
     26 root      rt   0       0      0      0 S   0.0   0.0   0:00.21 migration/2
     27 root      20   0       0      0      0 S   0.0   0.0   0:00.46 ksoftirqd/2
     29 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/2:0H-kblockd
     30 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/3
     31 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/3
     32 root      rt   0       0      0      0 S   0.0   0.0   0:00.21 migration/3
     33 root      20   0       0      0      0 S   0.0   0.0   0:00.46 ksoftirqd/3
     35 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/3:0H-events_highpri
     36 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/4
     37 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/4
```

17. WHOAMI

```
~/Documents/mobile
❯ whoami
shivam256
```

18 PWD

```
~/Documents/mobile
❯ pwd
/home/shivam256/Documents/mobile
```