

## Experiment no.2

### 1)Uptime Command:-

```
sejalpawar@ubuntu:~/Desktop$ uptime
23:37:40 up 10 min, 1 user, load average: 0.01, 0.26, 0.22
sejalpawar@ubuntu:~/Desktop$ uptime -s
2023-04-07 23:26:53
sejalpawar@ubuntu:~/Desktop$ uptime -p
up 11 minutes
sejalpawar@ubuntu:~/Desktop$ uptime -V
uptime from procps-ng 3.3.16
sejalpawar@ubuntu:~/Desktop$
```

### 2)Sudo Command:-

```
sejalpawar@ubuntu:~/Desktop$ sudo passwd root
[sudo] password for sejalpawar:
New password:
Retype new password:
passwd: password updated successfully
sejalpawar@ubuntu:~/Desktop$
```

### 3)W command:-

```
sejalpawar@ubuntu:~/Desktop$ w
23:41:13 up 14 min, 1 user, load average: 0.11, 0.17, 0.18
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU   WHAT
sejalpaw :0        :0                23:31   ?xdm?   1:03   0.01s /usr/lib/gdm3/gdm-x-session --run-script env GNOME_SHELL_SESSION_MODE=ubuntu /usr/bin/gnome-session --systemd --session=ubuntu
sejalpawar@ubuntu:~/Desktop$ w -s
23:41:29 up 14 min, 1 user, load average: 0.07, 0.16, 0.18
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU   WHAT
sejalpaw :0        :0                23:31   ?xdm?   /usr/lib/gdm3/gdm-x-session --run-script env GNOME_SHELL_SESSION_MODE=ubuntu /usr/bin/gnome-session --systemd --session=ubuntu
sejalpawar@ubuntu:~/Desktop$ w -o
23:41:35 up 14 min, 1 user, load average: 0.07, 0.16, 0.18
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU   WHAT
sejalpaw :0        :0                23:31   ?xdm?   /usr/lib/gdm3/gdm-x-session --run-script env GNOME_SHELL_SESSION_MODE=ubuntu /usr/bin/gnome-session --systemd --session=ubuntu
sejalpawar@ubuntu:~/Desktop$ w -l
23:41:42 up 14 min, 1 user, load average: 0.06, 0.16, 0.17
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU   WHAT
sejalpaw :0        :0                23:31   ?xdm?   59.86s /usr/lib/gdm3/gdm-x-session --run-script env GNOME_SHELL_SESSION_MODE=ubuntu /usr/bin/gnome-session --systemd --session=ubuntu
sejalpawar@ubuntu:~/Desktop$
```

### 4)Users command:-

```

sejulpawar@ubuntu:~/Desktop$ users
sejulpawar
sejulpawar@ubuntu:~/Desktop$ users --version
users (GNU coreutils) 8.30
Copyright (C) 2018 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <https://gnu.org/licenses/gpl.html>.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.

Written by Joseph Arceneaux and David MacKenzie.
sejulpawar@ubuntu:~/Desktop$

```

## 5)Who command:-

```

sejulpawar@ubuntu:~/Desktop$ who
sejulpawar :0          2023-04-07 23:31 (:0)
sejulpawar@ubuntu:~/Desktop$ who -u
sejulpawar :0          2023-04-07 23:31  ?          3647 (:0)
sejulpawar@ubuntu:~/Desktop$ who -r
      run-level 5  2023-04-07 23:31
sejulpawar@ubuntu:~/Desktop$ who -b -H
NAME      LINE      TIME                                PID COMMENT
      system boot  2023-04-07 23:26
sejulpawar@ubuntu:~/Desktop$

```

## 6)Whoami command:-

```

sejulpawar@ubuntu:~/Desktop$ whoami
sejulpawar
sejulpawar@ubuntu:~/Desktop$ whoami --version
whoami (GNU coreutils) 8.30
Copyright (C) 2018 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <https://gnu.org/licenses/gpl.html>.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.

Written by Richard Mlynarik.
sejulpawar@ubuntu:~/Desktop$

```

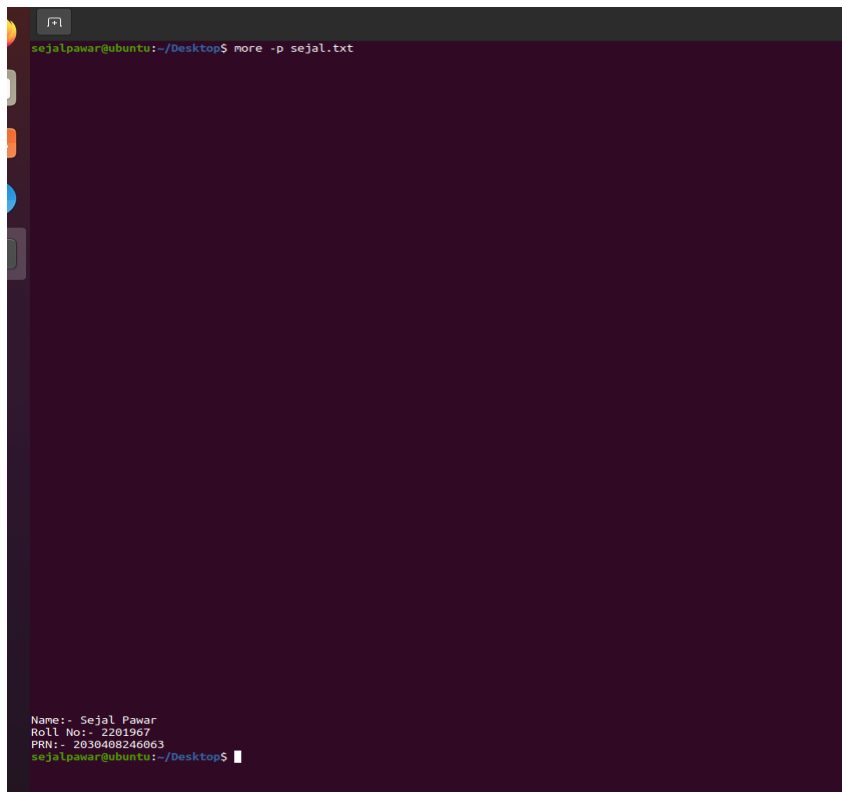
## 7)Cat command:-

```
sejals@ubuntu:~/Desktop$ cat > sejals.txt
Name:- Sejal Pawar
Roll No:- 2201967
PRN:- 2030408246063
Department:- IT
```

```
sejals@ubuntu:~/Desktop$ cat sejals.txt
Name:- Sejal Pawar
Roll No:- 2201967
PRN:- 2030408246063
sejals@ubuntu:~/Desktop$
```

#### 8)More command:-

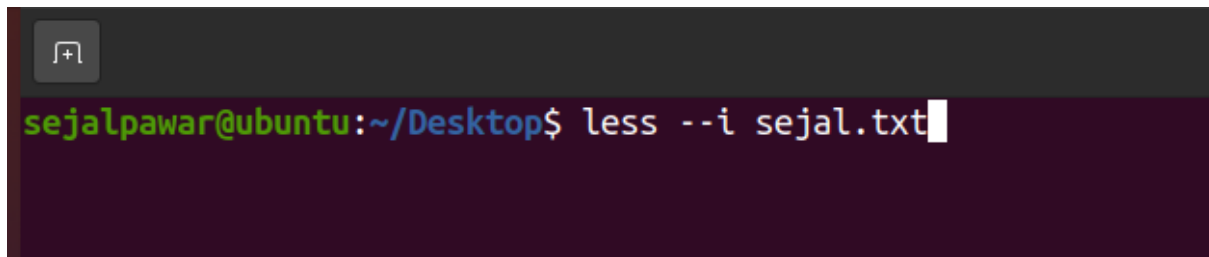
```
sejals@ubuntu:~/Desktop$ more -d sejals.txt
Name:- Sejal Pawar
Roll No:- 2201967
PRN:- 2030408246063
sejals@ubuntu:~/Desktop$ more -f sejals.txt
Name:- Sejal Pawar
Roll No:- 2201967
PRN:- 2030408246063
sejals@ubuntu:~/Desktop$
```



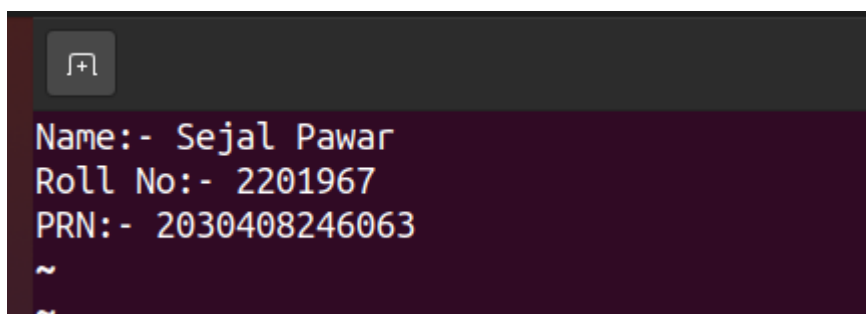
```
sejalpawar@ubuntu:~/Desktop$ more -p sejal.txt
```

Name:- Sejal Pawar  
Roll No:- 2201967  
PRN:- 2030408246063  
sejalpawar@ubuntu:~/Desktop\$

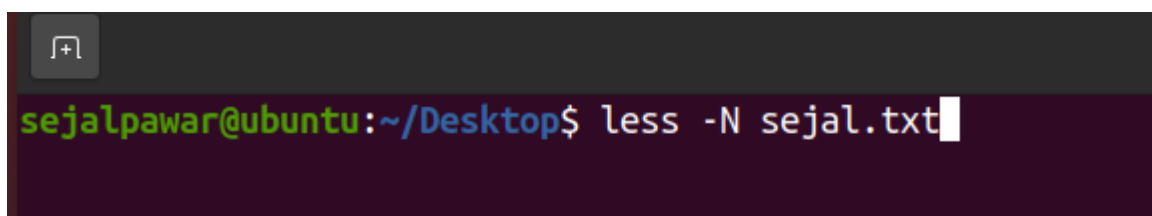
## 9) Less command:-



```
sejalpawar@ubuntu:~/Desktop$ less -i sejal.txt
```



```
Name:- Sejal Pawar  
Roll No:- 2201967  
PRN:- 2030408246063  
~  
~
```



```
sejalpawar@ubuntu:~/Desktop$ less -N sejal.txt
```

```
1 Name:- Sejal Pawar
2 Roll No:- 2201967
3 PRN:- 2030408246063
sejal.txt (END)
```

```
sejalspawar@ubuntu:~/Desktop$ less -V sejal.txt
less 551 (GNU regular expressions)
Copyright (C) 1984-2019 Mark Nudelman

less comes with NO WARRANTY, to the extent permitted by law.
For information about the terms of redistribution,
see the file named README in the less distribution.
Home page: http://www.greenwoodsoftware.com/less
sejalspawar@ubuntu:~/Desktop$
```

#### 10)Cp command:-

```
sejalspawar@ubuntu:~/Desktop$ cp sejal.txt sejalspawar.txt
sejalspawar@ubuntu:~/Desktop$ cp -r sejal.txt sejalspawar.txt
sejalspawar@ubuntu:~/Desktop$ cp -i sejalspawar.txt sejal2.txt
sejalspawar@ubuntu:~/Desktop$ cp -l sejal2.txt sejalspawar2.txt
sejalspawar@ubuntu:~/Desktop$
```

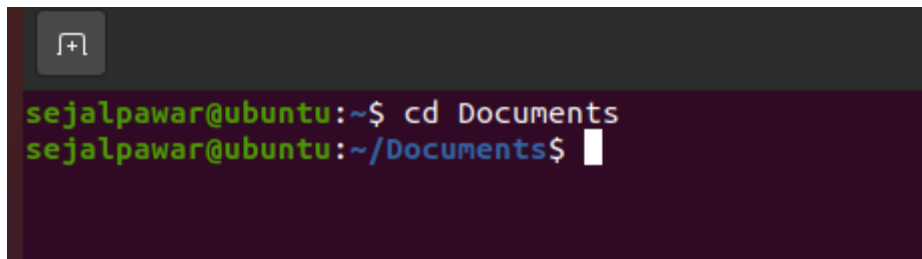
#### 11)mv command:-

```
sejalspawar@ubuntu:~/Desktop$ mv -i sejal.txt sejal2.txt
sejalspawar@ubuntu:~/Desktop$ mv -u sejal2.txt sejalspawar.txt
sejalspawar@ubuntu:~/Desktop$ mv -v sejalspawar.txt sejal.txt
renamed 'sejalspawar.txt' -> 'sejal.txt'
sejalspawar@ubuntu:~/Desktop$
```

**13) cd command:-**

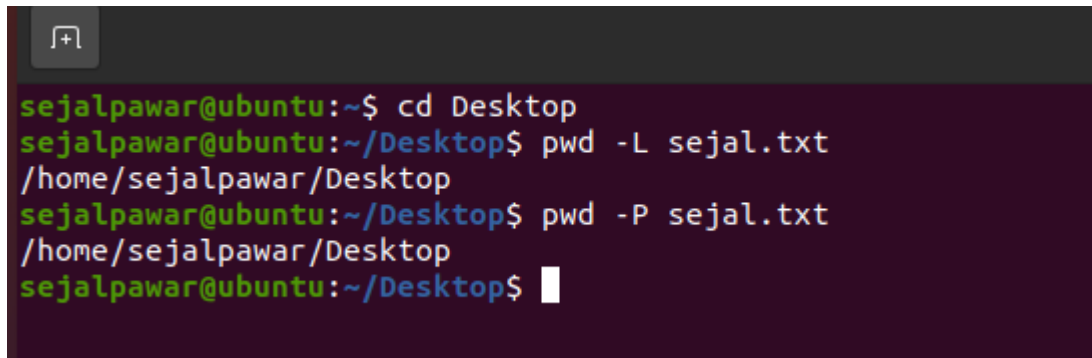


```
sejalpawar@ubuntu:~$
```



```
sejalpawar@ubuntu:~$ cd Documents
sejalpawar@ubuntu:~/Documents$
```

**14) Pwd command:-**



```
sejalpawar@ubuntu:~$ cd Desktop
sejalpawar@ubuntu:~/Desktop$ pwd -L sejal.txt
/home/sejalpawar/Desktop
sejalpawar@ubuntu:~/Desktop$ pwd -P sejal.txt
/home/sejalpawar/Desktop
sejalpawar@ubuntu:~/Desktop$
```

### 15)Sort command:-

```
sejalspawar@ubuntu:~/Desktop$ sort -r sejals.txt
Roll No:- 2201967
PRN:- 2030408246063
Name:- Sejal Pawar
sejalspawar@ubuntu:~/Desktop$ sort -n number.txt
00
01
7
11
12
78
90
sejalspawar@ubuntu:~/Desktop$ sort -m sejals.txt number.txt
78
90
00
12
11
7
01
Name:- Sejal Pawar
Roll No:- 2201967
PRN:- 2030408246063
sejalspawar@ubuntu:~/Desktop$
```

### 16)Vi command:-

```
sejalspawar@ubuntu:~/Desktop$ vi sejals.txt
```

```
Name:- Sejal Pawar
Roll No:- 2201967
PRN:- 2030408246063
~
```

```
Name:- Sejal Ravindra Pawar
Roll No:- 2201967
PRN:- 2030408246063
~
~
```

```
Name:- Sejal Pawar
Roll No:- 2201967
PRN:- 2030408246063
~
~
```

17)ssh command:-

```
sejalpawar@ubuntu:~/Desktop$ ssh -V
OpenSSH_8.2p1 Ubuntu-4ubuntu0.4, OpenSSL 1.1.1f 31 Mar 2020
sejalpawar@ubuntu:~/Desktop$
```

18) ftp command:-

```
sejalpawar@ubuntu:~/Desktop$ ftp
ftp> ipv6
Chosen addressing: IPv6.
ftp> ipv4
Chosen addressing: IPv4.
ftp> !
sejalpawar@ubuntu:~/Desktop$
```



## 19)free command:-

```
sejalpawar@ubuntu: ~/Desktop
sejalpawar@ubuntu:~/Desktop$ free -k
              total        used        free      shared  buff/cache   available
Mem:           1988260      1005988      131044         3096       851228       803772
Swap:          459260         4672      454588

sejalpawar@ubuntu:~/Desktop$ free -m
              total        used        free      shared  buff/cache   available
Mem:             1941         982         127           3          831          784
Swap:             448           4         443

sejalpawar@ubuntu:~/Desktop$ free -g
              total        used        free      shared  buff/cache   available
Mem:              1           0           0           0           0           0
Swap:             0           0           0

sejalpawar@ubuntu:~/Desktop$ free -t
              total        used        free      shared  buff/cache   available
Mem:           1988260      1005952      131044         3096       851264       803816
Swap:          459260         4672      454588
Total:        2447520      1010624      585632
sejalpawar@ubuntu:~/Desktop$
```

## 20)Top command:-

```
sejalpawar@ubuntu:~/Desktop$ top -h
procs-ng 3.3.16
Usage:
top -hv | -bCEHlOSs1 -d secs -n max -uIU user -p pid(s) -o field -w [cols]
sejalpawar@ubuntu:~/Desktop$ top -d seconds.tenths
top: bad delay interval 'seconds.tenths'
sejalpawar@ubuntu:~/Desktop$ top -u sejalpawar

top - 00:17:50 up 50 min, 1 user, load average: 0.03, 0.14, 0.11
Tasks: 279 total, 1 running, 278 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.7 us, 0.3 sy, 0.0 ni, 99.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 1941.7 total, 127.5 free, 982.5 used, 831.7 buff/cache
MiB Swap: 448.5 total, 443.9 free, 4.6 used, 784.8 avail Mem

  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM     TIME+ COMMAND
 3649 sejalpa+ 20   0 310336 75792 41076 S   1.0   3.8   0:51.05 Xorg
 3854 sejalpa+ 20   0 4082612 264828 104080 S   0.7  13.3   1:48.08 gnome-shell
 5752 sejalpa+ 20   0 819972 53372 39560 S   0.7   2.7   0:02.62 gnome-terminal-
 4074 sejalpa+ 20   0 300044 49284 30024 S   0.3   2.5   0:06.66 vmtoclsd
 5815 sejalpa+ 20   0 12152   4100 3268 R   0.3   0.2   0:00.07 top
 3590 sejalpa+ 20   0 21444 11000 7424 S   0.0   0.6   0:00.66 systemd
 3591 sejalpa+ 20   0 104528 3420   0 S   0.0   0.2   0:00.00 (sd-pam)
 3597 sejalpa+  9  -11 1745296 20588 15580 S   0.0   1.0   0:07.09 pulseaudio
```

## 21)Tar command:-

```

sejalpawar@ubuntu:~/Desktop$ tar cvf file.tar *.txt
number.txt
sejal.txt
sejalpawar@ubuntu:~/Desktop$ tar xvf file.tar
number.txt
sejal.txt
sejalpawar@ubuntu:~/Desktop$ tar cvfw file.tar *.txt
add 'number.txt'?
add 'sejal.txt'?
sejalpawar@ubuntu:~/Desktop$

```

## 22)Grep command:-

```

sejalpawar@ubuntu:~/Desktop$ grep -c "sejal" sejal.txt
4
sejalpawar@ubuntu:~/Desktop$ grep -l "sejal" *
number.txt
sejal.txt
sejalpawar@ubuntu:~/Desktop$ grep -o "pawar" number.txt
pawar
pawar
pawar
pawar
sejalpawar@ubuntu:~/Desktop$ grep -n "sejal" sejal.txt number.txt
sejal.txt:4:sejal
sejal.txt:5:sejal
sejal.txt:6: sejal
sejal.txt:7: sejal
number.txt:12:  sejal
number.txt:13:  sejal
sejalpawar@ubuntu:~/Desktop$

```

Practical Performance (4)	Writeup & Oral (4)	Attendance (2)	Total (10)