



NEW YORK CITY COLLEGE OF TECHNOLOGY
THE CITY UNIVERSITY OF NEW YORK
Department of Computer Engineering Technology
300 Jay Street, Brooklyn, NY 11201-1909

LAB REPORT
EMT 2390L – OL76
(OPERATING SYSTEM LABORATORY)

LAB #9

Name: Puja Roy
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Commands

ps -ef – This command finds the process ID and the unique number of the process.

```
pujaroy@DESKTOP-U16R768: ~  
pujaroy@DESKTOP-U16R768:~$ ps -ef  
UID          PID    PPID  C   STIME TTY          TIME CMD  
root           1         0   2  22:34 ?            00:00:00 /init  
root           7         1   0  22:34 tty1        00:00:00 /init  
pujaroy        8         7   2  22:34 tty1        00:00:00 -bash  
pujaroy       24         8   0  22:34 tty1        00:00:00 ps -ef  
pujaroy@DESKTOP-U16R768:~$
```

top -u – This command shows the Linux processes and display summary information of the system.

```
pujaroy@DESKTOP-U16R768: ~  
pujaroy@DESKTOP-U16R768:~$ top -u  
top: -u requires argument  
pujaroy@DESKTOP-U16R768:~$
```

jobs – This command shows jobs which run in the background and if the prompt returns nothing then there is no job present in the system.

```
pujaroy@DESKTOP-U16R768: ~  
pujaroy@DESKTOP-U16R768:~$ jobs  
pujaroy@DESKTOP-U16R768:~$ jobs files  
-bash: jobs: files: no such job  
pujaroy@DESKTOP-U16R768:~$
```

bg - This command resumes the suspended jobs in the background by returning the user to shell prompts while the job runs.

```
pujaroy@DESKTOP-U16R768: ~  
pujaroy@DESKTOP-U16R768:~$ bg  
-bash: bg: current: no such job  
pujaroy@DESKTOP-U16R768:~$
```

fg – This command puts the background job in foreground.

```

pujaroy@DESKTOP-U16R768: ~
pujaroy@DESKTOP-U16R768:~$ fg
-bash: fg: current: no such job
pujaroy@DESKTOP-U16R768:~$

```

kill -9 – This command shuts down an unresponsive service.

```

pujaroy@DESKTOP-U16R768: ~
pujaroy@DESKTOP-U16R768:~$ kill -9
kill: usage: kill [-s sigspec | -n signum | -sigspec] pid | jobspec ... or kill -l [sigspec]
pujaroy@DESKTOP-U16R768:~$

```

killall – This command terminates all processes. It returns zero return code if at least one process is killed for a listed command.

```


pujaroy@DESKTOP-U16R768: ~
pujaroy@DESKTOP-U16R768:~$ killall
Usage: killall [ -Z CONTEXT ] [ -u USER ] [ -y TIME ] [ -o TIME ] [ -eIgiqrwv ]
           [ -s SIGNAL | -SIGNAL ] NAME...
    killall -l, --list
    killall -V, --version

-e,--exact          require exact match for very long names
-I,--ignore-case    case insensitive process name match
-g,--process-group  kill process group instead of process
-y,--younger-than   kill processes younger than TIME
-o,--older-than     kill processes older than TIME
-i,--interactive    ask for confirmation before killing
-l,--list           list all known signal names
-q,--quiet          don't print complaints
-r,--regex          interpret NAME as an extended regular expression
-s,--signal SIGNAL  send this signal instead of SIGTERM
-u,--user USER      kill only process(es) running as USER
-v,--verbose        report if the signal was successfully sent
-V,--version        display version information
-w,--wait           wait for processes to die
-n,--ns PID         match processes that belong to the same namespaces
                    as PID
-Z,--context REGEXP kill only process(es) having context
                    (must precede other arguments)

pujaroy@DESKTOP-U16R768:~$

```

shutdown – This command shuts down and reboots a system.

 pujaroy@DESKTOP-U16R768: ~

```
pujaroy@DESKTOP-U16R768:~$ shutdown
System has not been booted with systemd as init system (PID 1). Can't operate.
Failed to connect to bus: Host is down
System has not been booted with systemd as init system (PID 1). Can't operate.
Failed to connect to bus: Host is down
System has not been booted with systemd as init system (PID 1). Can't operate.
Failed to connect to bus: Host is down
Failed to talk to init daemon.
pujaroy@DESKTOP-U16R768:~$
```