

## Process Control -

1. bg % 1 - Resumes a stopped job

Jobs - Lists all active job

fg % 1 - Brings a background job to the foreground

```
rvu-OptiPlex-SFF-7020:~/pruthvik$ jobs
Stopped          top
rvu-OptiPlex-SFF-7020:~/pruthvik$ bg % 1
top &
&
g: job 1 already in background

rvu-OptiPlex-SFF-7020:~/pruthvik$ fg % 1
```

2. Kill PID - Sends the signal to process to terminate it

Pstree -p - Shows the running processes as a tree

```
└─xdg-permission=(23007) └─xdg-document-portal[2207]
   └─xdg-permission-1/23[2202]
      └─xdg-permission-1/23[2414]
         └─xdg-permission-1/1[2416]

systemd journal[@t@]
systemd logout((@f7)
systemd logout((@f5)
systemd logout((@t5)
systemd aexecul(4t7)
thermald[789] └─{thermald}[789]
   └─feernald[11012]
      └─feernald[10013]
         └─feernald[11014]
            └─feernald[[1016]
udisks2[360] └─udisks2d(1864)
   └─udisks2.8[1861]
      └─udisks2.3[1862]
         └─udisks2.3[1863]
            └─udisks2.7[1864]
unattended-upgr[ ] └─um4ma4mt&emSwap[]
upeventd[1388] └─(pdc.T1388)
   └─(pdc.T1388)
   └─(pdc.T1386)

Swap_suspend: least()

(base) rvu@rvu-OptiPlex-SFF-7020:~/pruthvik$ /kill - 12h, L$
(base) rvu@rvu-OptiPlex-SFF-7020:~/pruthvik$
(base) rvu@rvu-OptiPlex-SFF-7020:~/pruthvik$ kill 14180,
bash: kill - ./tkmm: arguments must be process or job IDs
(base) rvu@rvu-OptiPlex-SFF-7020:~/pruthvik$ kill 14180
bash: kill - (.40) arguments must be process or job IDs
(base) rvu@rvu-OptiPlex-SFF-7020:~/pruthvik$ kill 3214
bash: kill: - (1B42) 'Ne.cite protied

      UID  + *GIEI    = PIE  FD  G-  G E_ 'S [E] START TIME
          If      2  S  0  BJ      S 00:00
          2  1900      0  2  8  BT      S 00:00
          3  1100      1  E  3  ABE     S 00:00
          4  1900      0  E  1  ABE     S 00:00
```

**3.** Kill -9 - It is used to forcefully stop the process when it can't be done only with kill

```
(base) rvu@rvu-OptiPlex-SFF-7020:~/pruthvik$ jobs
(base) rvu@rvu-OptiPlex-SFF-7020:~/pruthvik$ kill -9 PID 1.sh
bash: kill: PID: arguments must be process or job IDs
(base) rvu@rvu-OptiPlex-SFF-7020:~/pruthvik$ kill -9 3.sh
bash: kill: 3.sh: arguments must be process or job IDs
(base) rvu@rvu-OptiPlex-SFF-7020:~/pruthvik$ kill -9 PID 4628
bash: kill: (4628): No such process
(base) rvu@rvu-OptiPlex-SFF-7020:~/pruthvik$ kill -9 PID
```

**4.** This give count of process if process code is correct

**Code :**

nvu@rvu-optiPlex-SFF-7020:~/pruthvik

```
GNU nano 7.2
#!/bin/bash
echo "Background Task Started"
echo "Process ID:$$"
count=1
while true
1  do
    echo "Running...Count=$count"
    count=$((count+1))
    sleep 5
done
```

3.sh

**Output :**

```
) rvu@rvu-OptiPlex-SFF-7020:~/pruthvik$ nano 1.sh
) rvu@rvu-OptiPlex-SFF-7020:~/pruthvik$ nano 3.sh
) rvu@rvu-OptiPlex-SFF-7020:~/pruthvik$ chmod +x 3.sh
around Task Started
ress ID:18259
ing ..Count=1

) rvu@rvu-OptiPlex-SFF-7020:~/pruthvik$ ./3.sh
Stopped ./3sh
) rvu@rvu-OptiPlex-SFF-7020:~/pruthvik$ ./3.sh
around Task Started
ress ID:10415
ing ..Count=1
ing...Count=1
ing...Count=2
ing...Count=3
ing...Count=4
ing...Count=5
ing...Count=6
ing...Count=7
ing...Count=8
ing...Count=9
ing...Count=10
ing...Count=11
ing...Count=12
ing...Count=13
ing...Count=14
ing...Count=15
```