Process Management

List out highest priority process in the system

top -b -n 1 | head -n 12 | tail -n 1

```
   PID COMMAND         PRI
ubuntu@ip-172-31-8-251:~$ top -b -n 1 | head -n 12 | tail -n 1
     3 root      20   0     0      0      0 S   0.0   0.0   0:00.00 pool_wo+
ubuntu@ip-172-31-8-251:~$ htop
```

Or **by htop**

Open terminal with 2 tabs or sessions

a) run command "vmstat 1"

b) switch to another tab, pause running vmstat command for few seconds and resume it again use appropriate SIGNALS to do this activity.

vmstat 1

```
ubuntu@ip-172-31-8-251:~$ vmstat 1
procs -----------memory---------- ---swap-- -----io---- -system-- -------cpu----
---
 r  b   swpd   free   buff  cache   si   so    bi    bo   in   cs us sy id wa st
 gu
 0  0      0 107040 124048 503480    0    0    14    19  111    4  0  1 93  0  5
  0
 0  0      0 107040 124048 503480    0    0     0     0  184   99  0  0 100  0
0  0
 0  0      0 107040 124048 503480    0    0     0     0   76   60  1  0 98  0  1
  0
 0  0      0 107040 124048 503480    0    0     0     0   50   40  0  0 100  0
0  0
 0  0      0 107040 124048 503480    0    0     0     0   52   46  0  0 94  0  6
  0
 0  0      0 107040 124048 503480    0    0     0     0   55   50  0  0 96  0  4
  0
 0  0      0 107040 124048 503480    0    0     0     0   66   55  0  0 99  0  1
  0
 0  0      0 107040 124048 503480    0    0     0     0   38   29  0  0 100  0
0  0
 0  0      0 107040 124048 503480    0    0     0     0   42   33  0  0 94  0  6
  0
 0  0      0 107040 124048 503480    0    0     0     0   54   43  0  0 97  0  3
  0
 0  0      0 107040 124048 503480    0    0     0     0   40   33  0  0 83  0 17
  0
 0  0      0 107040 124048 503480    0    0     0     0   36   28  0  0 100  0
0  0
 0  0      0 107040 124048 503480    0    0     0     0   60   51  0  1 92  0  7
  0
 0  0      0 107040 124048 503480    0    0     0     0   34   29  0  0 90  0 10
  0
 0  0      0 107040 124048 503480    0    0     0     0   58   48  0  0 100  0
0  0
 0  0      0 107040 124048 503480    0    0     0     0   50   44  0  0 95  0  5
  0
 0  0      0 107040 124048 503480    0    0     0     0   44   34  0  0 86  0 14
  0
 0  0      0 107040 124048 503480    0    0     0     0   50   40  0  0 99  0  1
  0
 0  0      0 107040 124048 503480    0    0     0     0   54   40  0  0 100  0
0  0
 0  0      0 107040 124048 503480    0    0     0     0   38   33  0  0 100  0
0  0
```

In the second tab

pgrep vmstat

kill -SIGSTOP 4329

kill -SIGCONT 4329


```
ubuntu@ip-172-31-8-251: ~
ubuntu@ip-172-31-8-251:~$ pgrep vmstat
4329
ubuntu@ip-172-31-8-251:~$ kill -SIGSTOP 4329
ubuntu@ip-172-31-8-251:~$ kill -SIGCONT 4329
ubuntu@ip-172-31-8-251:~$ kill -SIGSTOP 4329
```

Find the process which is sleeping in "wait" state.
top -b -n 1 | grep " D "