ARPIT SAGAR

1) List out highest priority process in the system

Used –sort=-pri, where we got results sorted based on priority.

2) Open terminal with 2 tabs or sessions

a) run command "vmstat 1"

(Terminal 1)

b) switch to another tab, pause running vmstat command for few seconds and resume it again

use appropriate SIGNALS to do this activity.

```
Last login: Wed Apr 9 09:52:42 2025 from 223.187.122.82 ubuntu@ip-172-31-44-14:~$ pgrep vmstat 23310 ubuntu@ip-172-31-44-14:~$ ps aux | grep vmstat ubuntu 23310 0.0 0.3 9884 3200 pts/5 S+ 09:56 0:00 vmstat 1 ubuntu 23440 0.0 0.2 7076 2176 pts/6 S+ 10:00 0:00 grep --col auto vmstat ubuntu@ip-172-31-44-14:~$ kill -SIGSTOP 23310 ubuntu@ip-172-31-44-14:~$
```

(Terminal 2)

Got pid of the "vmstat" process as "23310" and then stoped it using cmd "kill -SIGSTOP 23310"

(Terminal 1) (Terminal 2)

Here we found that, after using "kill -SIGSTOP 23301", "vmstat" terminal 1 stopped and we resumed it using cmd "kill -SIGCONT 23310" and verified it from terminal 1.

3) Find the process which is sleeping in "wait" state.

```
ubuntu@ip-172-31-44-14:~$ ps -eo pid, state, cmd | grep
     PID S CMD
       1 S /usr/lib/systemd/systemd --system --deserialize=62
      2 S [kthreadd]
3 S [pool_workqueue_release]
5 S [ksoftirqd/0]
           [migration/0]
     18 S
19 S
20 S
           [idle_inject/0]
           [cpuhp/0]
            [cpuhp/1]
            [idle inject/1]
            [migration/1]
            [ksoftirqd/1]
      26
           [kdevtmpfs]
           [kauditd]
           [khungtaskd]
      32 S [oom reaper]
           [kcompactd0]
           [ksmd]
           [khugepaged]
            [irq/9-acpi]
```

Showing pid, state, and cmd along with grep 'S' to search all the process in sleeping state. (interruptible sleep)