

Task 3: Command Execution and Pipelines

- List all the processes running on your system using the "ps" command.
- Use the "grep" command to filter the processes list and display only the processes with "bash" in their name.
- Use the "wc" command to count the number of lines in the filtered output.

```
killix@kalip: ~
$ ps aux
USER          PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root            1   0.0  0.3 169200 13820 ?        Ss   01:36   0:01 /sbin/init splash
root            2   0.0  0.0      0     0 ?        S    01:36   0:00 [kthreadd]
root            3   0.0  0.0      0     0 ?        I<   01:36   0:00 [rcu_gp]
root            4   0.0  0.0      0     0 ?        I<   01:36   0:00 [rcu_par_gp]
root            5   0.0  0.0      0     0 ?        I<   01:36   0:00 [slub_flushwq]
root            6   0.0  0.0      0     0 ?        I<   01:36   0:00 [netns]
root           10   0.0  0.0      0     0 ?        I<   01:36   0:00 [mm_percpu_wq]
root           11   0.0  0.0      0     0 ?        I    01:36   0:00 [rcu_tasks_kthread]
root           12   0.0  0.0      0     0 ?        I    01:36   0:00 [rcu_tasks_rude_kthread]
root           13   0.0  0.0      0     0 ?        I    01:36   0:00 [rcu_tasks_trace_kthread]
root           14   0.0  0.0      0     0 ?        S    01:36   0:00 [ksoftirqd/0]
root           15   0.0  0.0      0     0 ?        I    01:36   0:00 [rcu_preempt]
root           16   0.0  0.0      0     0 ?        S    01:36   0:00 [migration/0]
root           18   0.0  0.0      0     0 ?        S    01:36   0:00 [cpuhp/0]
root           19   0.0  0.0      0     0 ?        S    01:36   0:00 [cpuhp/1]
root           20   0.0  0.0      0     0 ?        S    01:36   0:00 [migration/1]
root           21   0.0  0.0      0     0 ?        S    01:36   0:00 [ksoftirqd/1]
root           23   0.0  0.0      0     0 ?        I<   01:36   0:00 [kworker/1:0H-events_highpri]
root           24   0.0  0.0      0     0 ?        S    01:36   0:00 [cpuhp/2]
root           25   0.0  0.0      0     0 ?        S    01:36   0:00 [migration/2]
root           26   0.0  0.0      0     0 ?        S    01:36   0:00 [ksoftirqd/2]
root           28   0.0  0.0      0     0 ?        I<   01:36   0:00 [kworker/2:0H-events_highpri]
root           29   0.0  0.0      0     0 ?        S    01:36   0:00 [cpuhp/3]
root           30   0.0  0.0      0     0 ?        S    01:36   0:00 [migration/3]
root           31   0.0  0.0      0     0 ?        S    01:36   0:00 [ksoftirqd/3]
root           33   0.0  0.0      0     0 ?        I<   01:36   0:00 [kworker/3:0H-events_highpri]
root           34   0.0  0.0      0     0 ?        S    01:36   0:00 [cpuhp/4]
root           35   0.0  0.0      0     0 ?        S    01:36   0:00 [migration/4]
root           36   0.0  0.0      0     0 ?        S    01:36   0:00 [ksoftirqd/4]
root           38   0.0  0.0      0     0 ?        I<   01:36   0:00 [kworker/4:0H-events_highpri]
root           39   0.0  0.0      0     0 ?        S    01:36   0:00 [cpuhp/5]
root           40   0.0  0.0      0     0 ?        S    01:36   0:00 [migration/5]
root           41   0.0  0.0      0     0 ?        S    01:36   0:00 [ksoftirqd/5]
root           43   0.0  0.0      0     0 ?        I<   01:36   0:00 [kworker/5:0H-events_highpri]
root           44   0.0  0.0      0     0 ?        S    01:36   0:00 [cpuhp/6]
```

```
(killix@kalip)-[~]
$ ps aux | grep bash
killix      18348  0.0  0.0  6332  2144 pts/1    S+   03:00   0:00 grep --color=auto bash

(killix@kalip)-[~]
$ ps aux | grep bash | wc -l
1
```