Assignement -3

**A. Process Management**

1. ps - View running processes.

2. top or htop - Monitor system processes in real-time.

3. kill - Terminate a process using its PID.

4. jobs - List active background jobs.

5. fg and bg - Move jobs between foreground and background.

6. nice and renice - Adjust process priorities.

7. strace - Trace system calls of a process.

8. lsof - List open files for a process.

1. **Lab Exercises:**

**1. Use ps to find and terminate a process.**

ps aux

kill -9 365 // -9 For Force Kill

**Output:**

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$ bash pr\_1.sh

PID PPID PGID WINPID TTY UID STIME COMMAND

1741 1675 1741 51436 cons0 197609 18:59:24 /usr/bin/bash

1742 1741 1741 19764 cons0 197609 18:59:24 /usr/bin/ps

1675 1 1675 51616 cons0 197609 18:58:36 /usr/bin/bash

**2. Start a long-running process (e.g., sleep 1000), then move it to the backgroun and bring back to the foreground.**

sleep 10

bg

echo "In BG"

sleep 10 &

fg %1

echo "In FG"

kill %1

**Output:**

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$ bash pr\_2.sh

*In BG*

*[1] 1234*

*In FG*

*[1]+  Terminated   sleep 10*

**3. Change the priority of a process using nice or renice.**

nice -n 10 sleep 10 &

renice -n -5 -p 910

**Output:**

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$ bash pr\_3.sh

[1] 910

910 (process ID) old priority 10, new priority -5