

National Textile University

Department of Computer Science

Subject:
Operating Systems
Submitted To:
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23-NTU-CS-1135
Lab No:

3

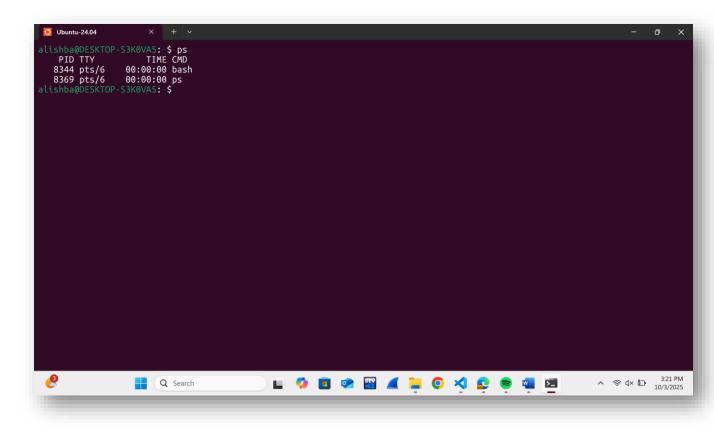
Semester:

5th

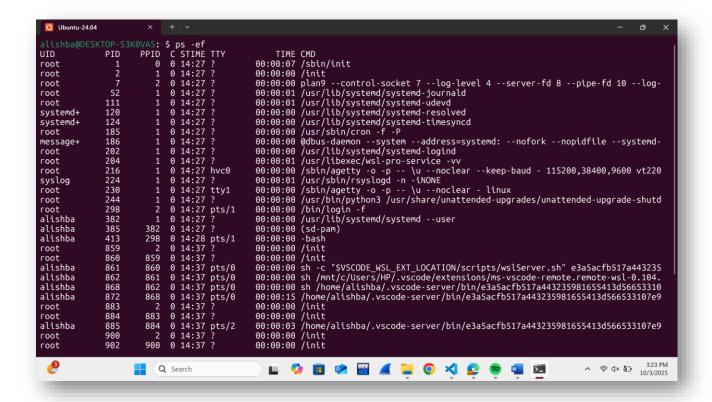
2. Linux Process Commands

2.1 Viewing Processes

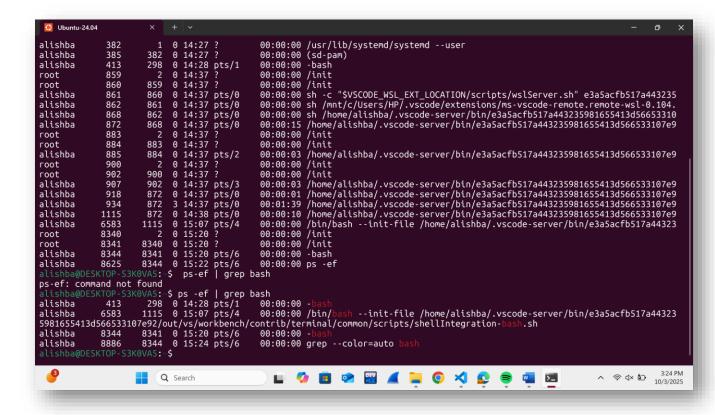
ps → Process Status



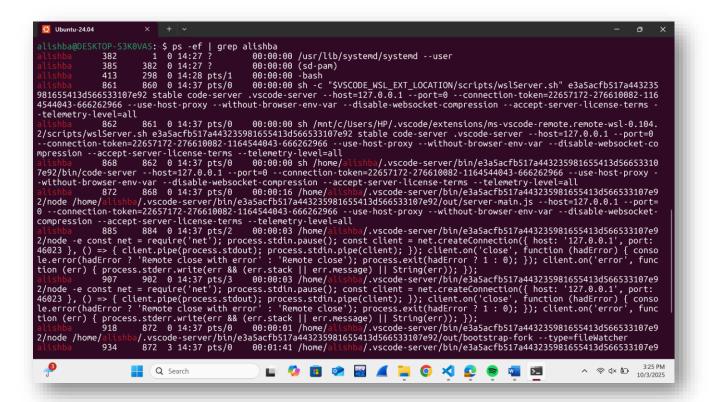
ps-ef command



ps-ef | grep bash

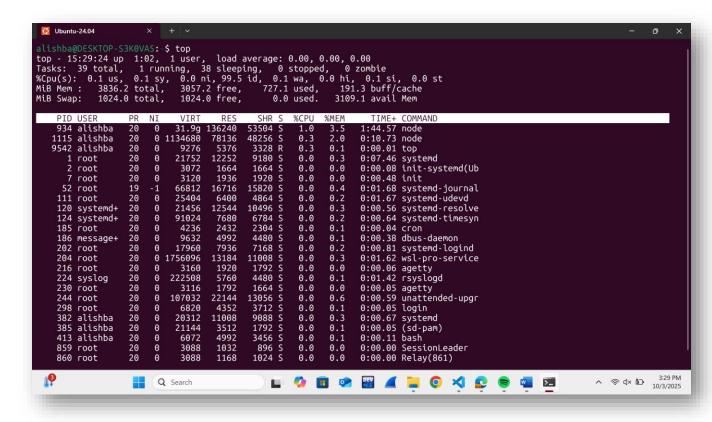


ps-ef | grep alishba



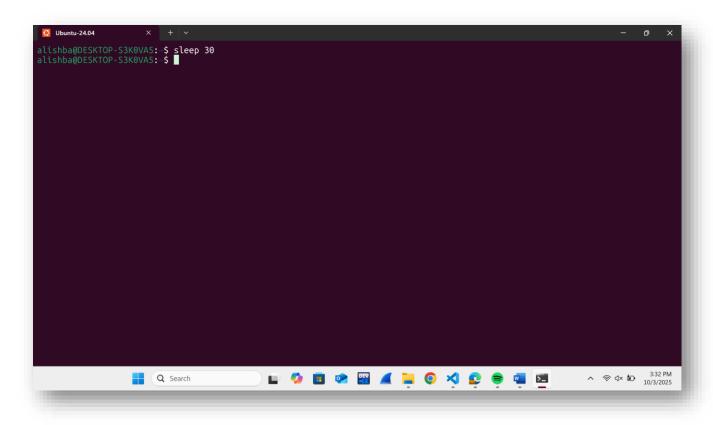
2.2 Monitoring Processes Interactively

top command

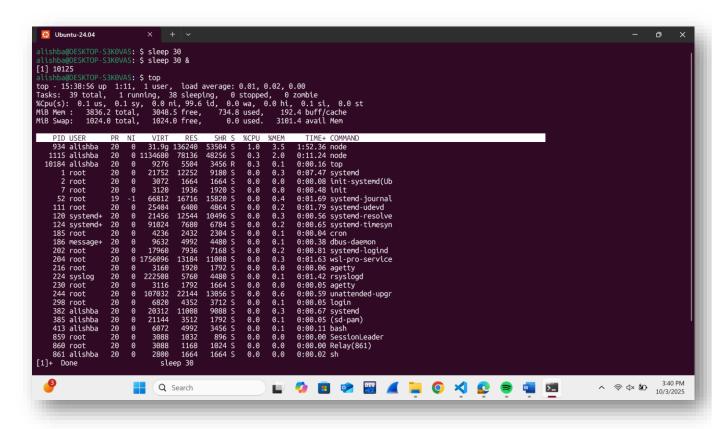


2.3 Foreground and Background Job

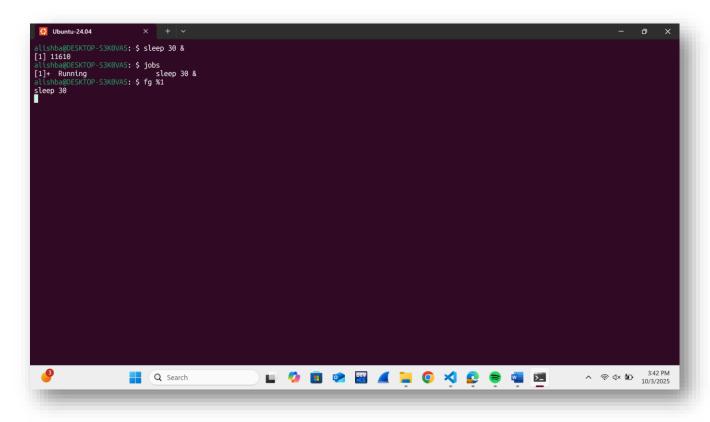
Foreground:



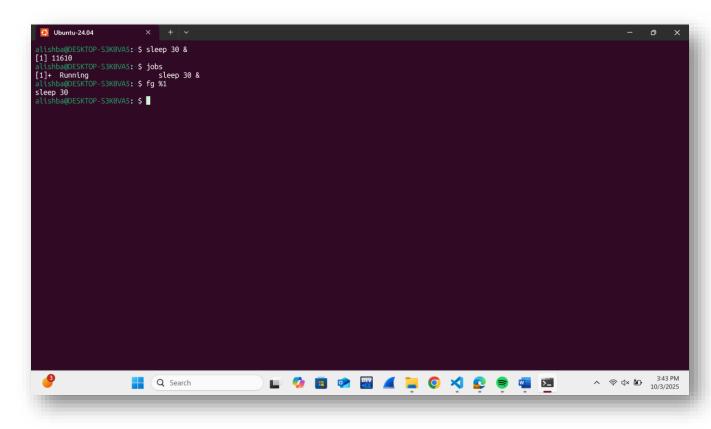
Background:



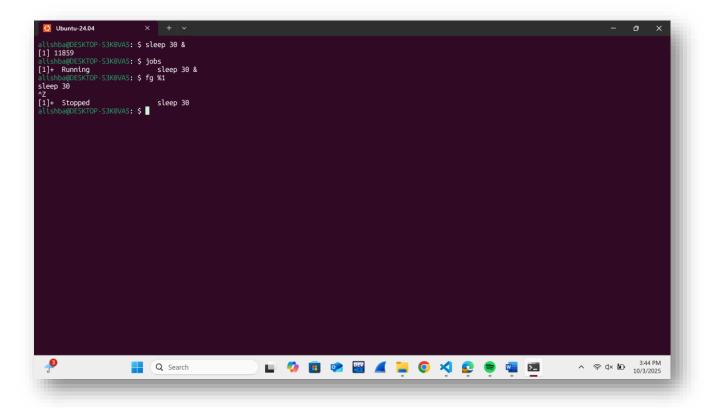
Check Background Jobs:



Bring a job to foreground



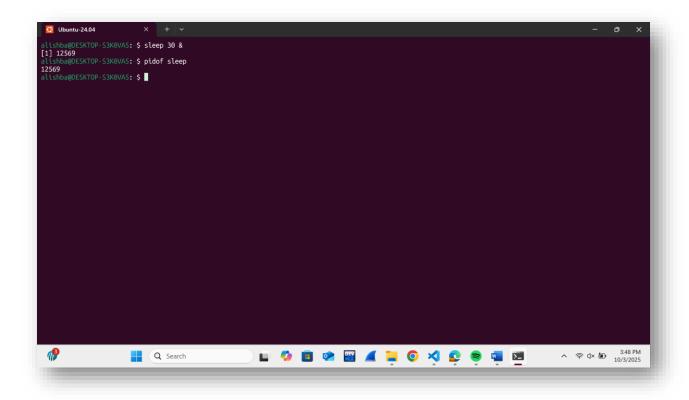
Suspend a job:



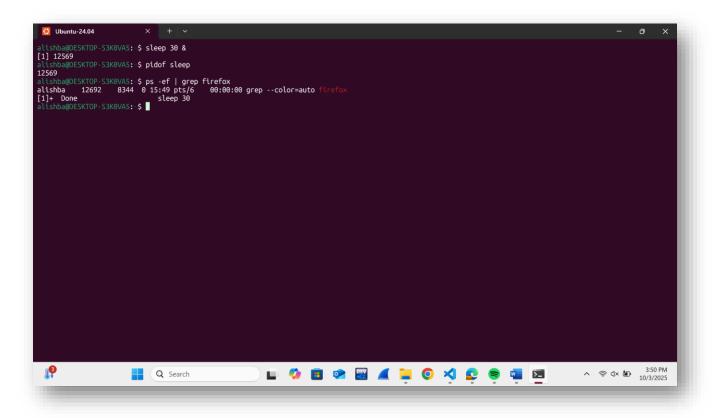
Resume suspended job in background:

2.4 Process Identification

Get PID of a process by name:

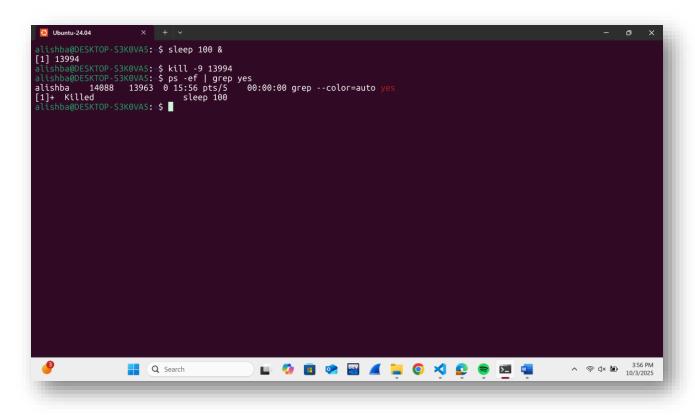


Search using ps and grep:

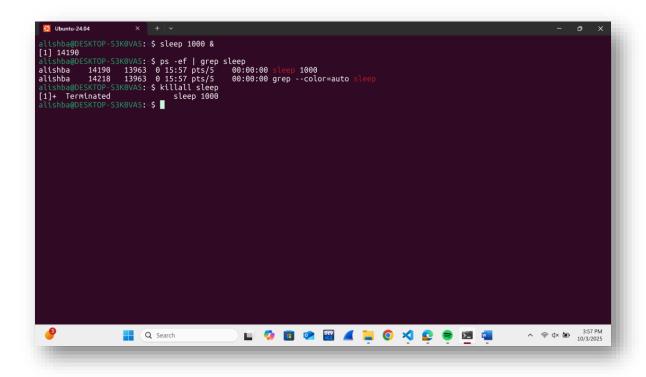


2.5 Killing Processes

Kill by PID:



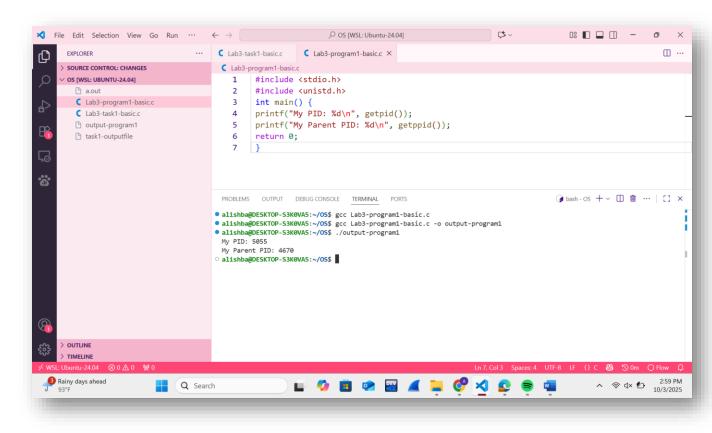
Kill all processes by name:



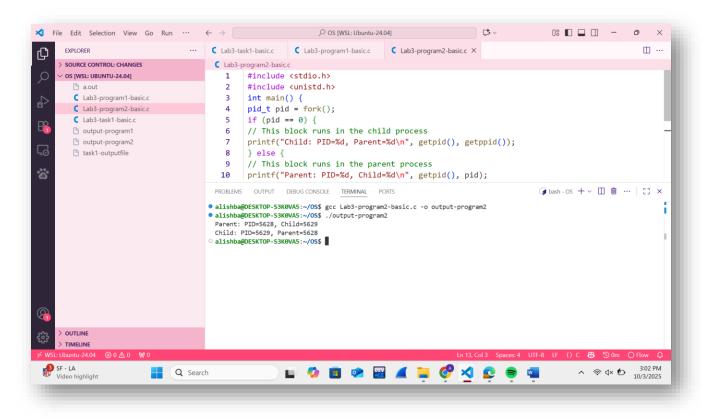
Practice Task

3. C Programs on Processes

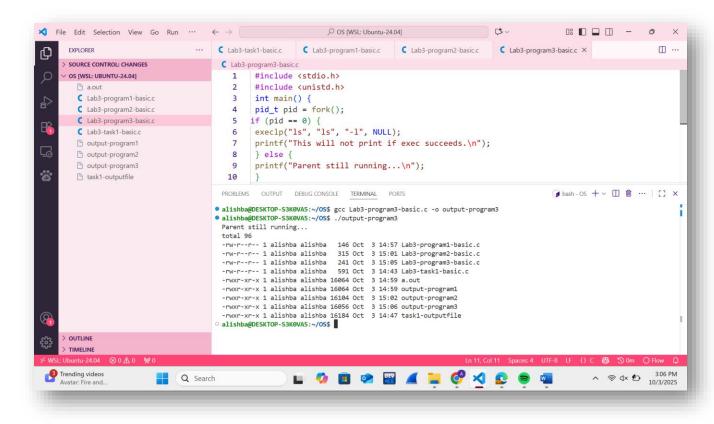
Program 1: Print PID and PPID



Program 2: Fork - Creating Child Process



Program 3: Execl - Replacing a Process



Program 4: Wait - Synchronization

