

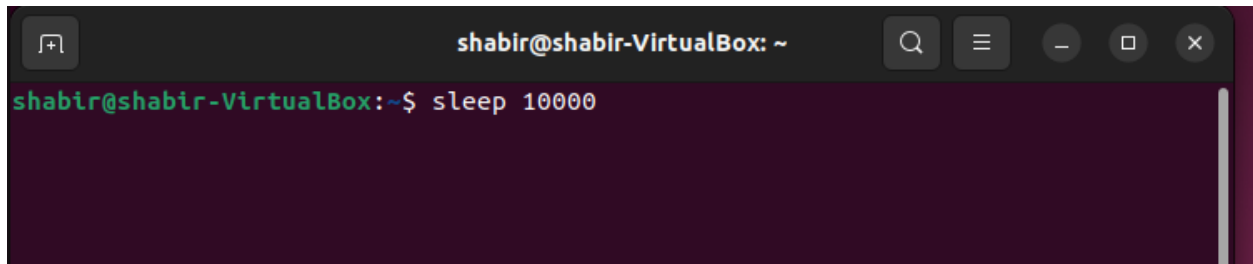
Module: R0: The Missing Semester
Section: Command Line Environment Task: 01

Task:

From what we have seen, we can use some `ps aux | grep` commands to get our jobs' pids and then kill them, but there are better ways to do it. Start a `sleep 10000` job in a terminal, background it with `Ctrl-Z` and continue its execution with `bg`. Now use `pgrep` to find its pid and `pkill` to kill it without ever typing the pid itself. (Hint: use the `-af` flags).

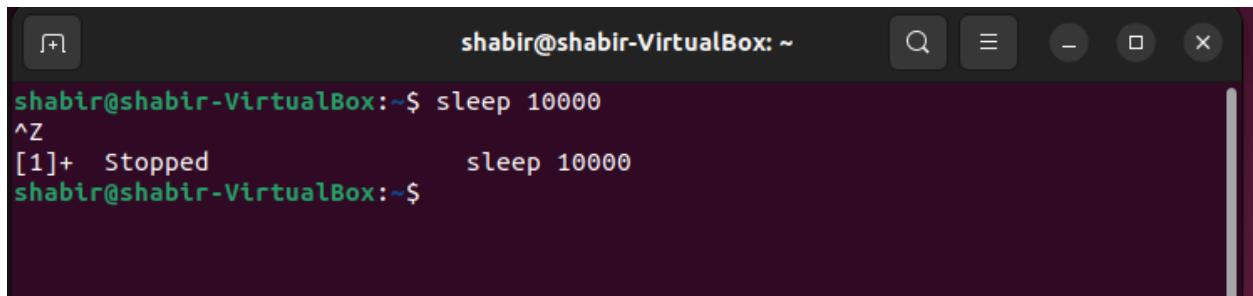
Explanation:

Firstly, I started a job of '`sleep 10000`',



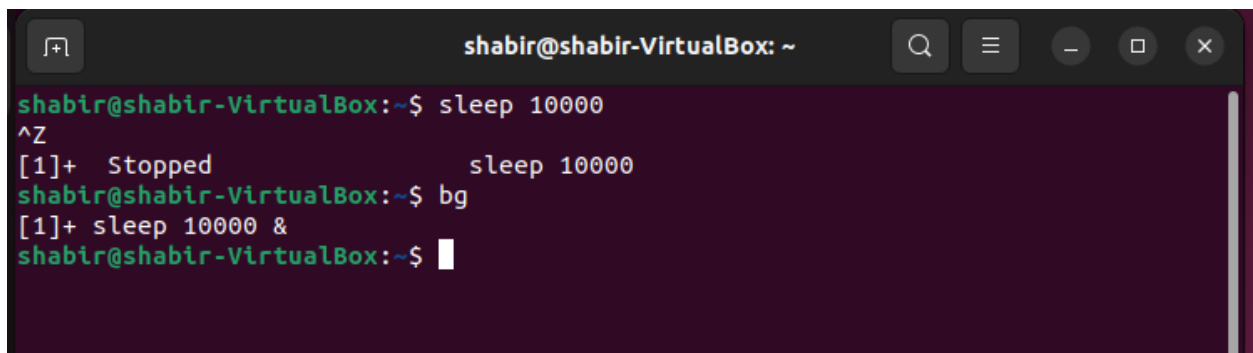
```
shabir@shabir-VirtualBox: ~  
shabir@shabir-VirtualBox:~$ sleep 10000
```

Then, background the job by using '^Z',



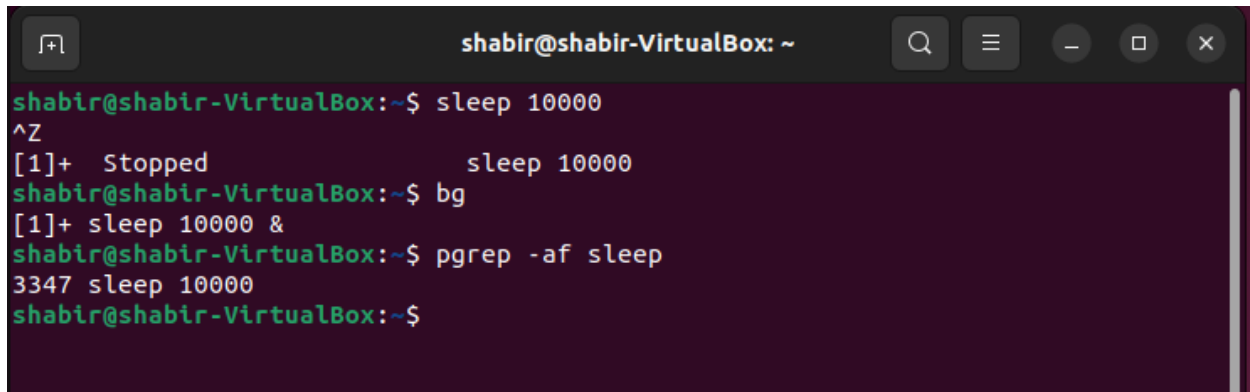
```
shabir@shabir-VirtualBox:~$ sleep 10000  
^Z  
[1]+  Stopped                  sleep 10000  
shabir@shabir-VirtualBox:~$
```

Then, use '`bg`' command to resume again the job,



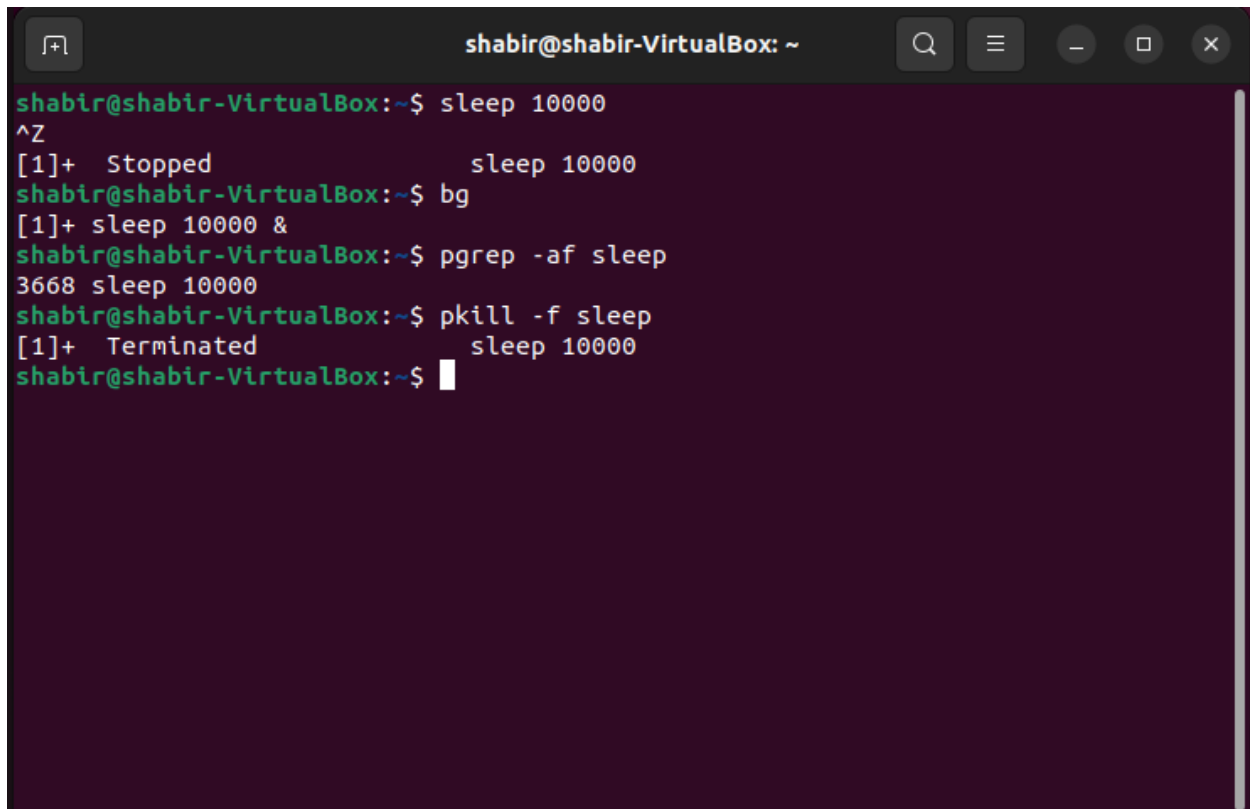
```
shabir@shabir-VirtualBox:~$ sleep 10000  
^Z  
[1]+  Stopped                  sleep 10000  
shabir@shabir-VirtualBox:~$ bg  
[1]+  sleep 10000 &  
shabir@shabir-VirtualBox:~$
```

Then, use the command '**pgrep -af sleep**' to get the process id of the job sleep.

A terminal window titled 'shabir@shabir-VirtualBox: ~' with search, menu, and window control icons. The terminal shows the following commands and output:

```
shabir@shabir-VirtualBox:~$ sleep 10000
^Z
[1]+  Stopped                  sleep 10000
shabir@shabir-VirtualBox:~$ bg
[1]+  sleep 10000 &
shabir@shabir-VirtualBox:~$ pgrep -af sleep
3347 sleep 10000
shabir@shabir-VirtualBox:~$
```

Then, I used the command '**pkill -f sleep**' to terminate the 'sleep 10000' job, can

A terminal window titled 'shabir@shabir-VirtualBox: ~' with search, menu, and window control icons. The terminal shows the following commands and output:

```
shabir@shabir-VirtualBox:~$ sleep 10000
^Z
[1]+  Stopped                  sleep 10000
shabir@shabir-VirtualBox:~$ bg
[1]+  sleep 10000 &
shabir@shabir-VirtualBox:~$ pgrep -af sleep
3668 sleep 10000
shabir@shabir-VirtualBox:~$ pkill -f sleep
[1]+  Terminated              sleep 10000
shabir@shabir-VirtualBox:~$
```

By using **pgrep** and **pkill**, I am able to get the PID of the job and kill that job respectively, without ever typing the PID itself.