Lab5

5. Issue the command sleep 100.

```
diana@diana:~$ sleep 100
```

6. Stop the last command.

```
^Z
[1]+  Stopped                 sleep 100
diana@diana:~$
```

7. Resume the last command in the background

```
diana@diana:~$ bg %1
[1]+ sleep 100 &
```

8. Issue the jobs command and see its output.

```
diana@diana:~$ jobs
[1]+  Running                 sleep 100 &
```

9. Send the sleep command to the foreground and send it again to the background.

```
diana@diana:~$ fg %1
sleep 100

^Z
[1]+  Stopped                 sleep 100
diana@diana:~$ bg %1
[1]+ sleep 100 &
diana@diana:~$ jobs
[1]+  Running                 sleep 100 &
```

10.Kill the sleep command.

```
diana@diana:~$ kill %1

[1]+  Stopped                 sleep 100
```

11.Display your processes only (process started by your username)

```
diana@diana:~$ ps -u diana
    PID TTY          TIME CMD
   1299 ?        00:00:00 systemd
   1300 ?        00:00:00 (sd-pam)
   1306 ?        00:00:00 pipewire
   1307 ?        00:00:00 pipewire-media-
   1308 ?        00:00:01 pulseaudio
   1310 ?        00:00:00 snapd-desktop-i
   1314 ?        00:00:00 gnome-keyring-d
   1316 ?        00:00:00 ubuntu-report
   1333 ?        00:00:00 dbus-daemon
   1341 ?        00:00:00 gvfsd
```

12.Use the pgrep command to list your processes only

```
diana@diana:~$ pgrep -u diana
1299
1300
1306
1307
```

13.List the user commands(in /bin) and redirect the output to

/tmp/commands.list

```
diana@diana:~$ ls /bin
'['                                 mktemp
 aa-enabled                         mkzftree
 aa-exec                            mmcli
 aa-features-abi                    mokutil
 aconnect                           monitor-sensor
diana@diana:~$
diana@diana:~$ ls /bin > /tmp/commands.list
```

14. (based on previous Question) Count the number of user commands

```
diana@diana:~$ wc -l /tmp/commands.list
1344 /tmp/commands.list
diana@diana:~$
```

15.Start firefox application

```
diana@diana:~$ firefox
```

16.Send Signal kill to firefox

```
diana@diana:~$ pkill firefox
diana@diana:~$
```

17.Get the logins name and full names (comment) of logins starts with “gu”.

cut -d: -f1,5 | grep "^gu" /etc/passwd

18.Display the number of users who is logged now to the system.

who | wc -l

19.Display lines 7 to line 10 of /etc/passwd file

head -n 10 /etc/passwd | tail -n +7

20.Search for all files on the system that named “.bash_profile” using two methods.

```
diana@diana:~$ find / -type f -name ".bash_profile" 2>/dev/null
diana@diana:~$
diana@diana:~$
diana@diana:~$
diana@diana:~$
diana@diana:~$
diana@diana:~$
diana@diana:~$
diana@diana:~$
diana@diana:~$
diana@diana:~$
diana@diana:~$ find / -type f -name ".bash_profile"
find: ‘/sys/kernel/tracing’: Permission denied
find: ‘/sys/kernel/debug’: Permission denied
find: ‘/sys/fs/pstore’: Permission denied
```

```
diana@diana:~$ locate "/.bash_profile"
```

22.Kill your processes only (be care: save lab before command execution)

```
diana@diana:~$ pkill -u diana
```

Lab5

1. Sort /etc/passwd based on the full names of users and save output to external file.

```
diana@diana:~$ sort -t: -k5 /etc/passwd > sortedPasswd.txt
diana@diana:~$ cat ^C
diana@diana:~$ cat sortedPasswd.txt
avahi-autoipd:x:110:119:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/
nologin
avahi:x:114:121:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
colord:x:123:130:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/no
login
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
diana:x:1000:1000:Diana,,,:/home/diana:/bin/bash
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
fwupd-refresh:x:120:126:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
games:x:5:60:games:/usr/games:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologi
n
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false
alaa:x:1002:1002::/home/alaa:/bin/sh
maha:x:1003:1003::/home/maha:/bin/sh
```