## Lap3

3. List the available shells in your system

```
[ghada@localhost ~]$ cat /etc/shells
/bin/sh
/bin/bash
/usr/bin/sh
/usr/bin/bash
```

4. List the environment variables in your current shell.

Using env, printenv or set

5. List all of the environment variables for the bash shell.

Using env, printenv

6. What are the commands that list the value of a specific variable?

Echo

7. Display your current shell name.

```
[ghada@localhost ~]$ echo $SHELL
/bin/bash
```

8. State the initialization files of: sh, ksh, bash.

Using cat /etc/profile

9. Edit in your profile to display date at login and change your prompt permanently.

```
[root@localhost ~]# su ghada

[ghada@localhost root]$ exit

exit

[root@localhost ~]# su - ghada

Sun Dec 29 03:50:23 PM EET 2024

Hello changing bash.profile user specific environment
```

10. Execute the following command:

echo \ then press enter

```
one
[ghada@localhost ~]$ echo \
> ghada
ghada
```

What is the purpose of \? wait to enter something and print it

Notice the prompt ">" what is that? and how can you change it from ">" to ":".

11. Create a Bash shell alias named Is for the "Is -I" command

```
[ghada@localhost ~]$ alias ls="ls -l"
[ghada@localhost ~]$ ls
total 8
-rw-r--r-. 1 ghada ghada 245 Dec 25 15:16 cv
drwxr-xr-x. 2 ghada ghada
                          6 Dec 23 15:32 Desktop
                         18 Dec 23 17:04 docs
drwxr-xr-x. 2 ghada ghada
drwxr-xr-x. 2 ghada ghada
                          6 Dec 23 15:32 Documents
drwxr-xr-x. 2 ghada ghada 6 Dec 23 15:32 Downloads
drwxr-xr-x. 2 ghada ghada 6 Dec 23 15:32 Music
dr--r-xr-x. 2 ghada ghada 6 Dec 25 12:46 myteam
d-----. 2 ghada ghada 6 Dec 25 13:58 noPermission
-rw--wx--x. 1 ghada ghada 1959 Dec 23 17:38 oldpasswd
drwxr-xr-x. 2 ghada ghada 6 Dec 23 15:32 Pictures
drwxr-xr-x. 2 ghada ghada 6 Dec 23 15:32 Public
drwxr-xr-x. 2 ghada ghada 6 Dec 23 15:32 Templates
drwxr-xr-x. 2 ghada ghada 6 Dec 23 15:32 Videos
```

## Lap 4:

10. Issue the command sleep 100.

```
[ghada@localhost ~]$ sleep 1000
^C
[ghada@localhost ~]$
```

11. stop the last command

Pressing ctrl+c

- 12. resume the last command in the background
- 13. Issue the jobs command and see its output. Will show processes in the background

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

15. kil the sleep command

```
[ghada@localhost ~]$ kill -KILL 3678
[1]+ Killed sleep 1000
```

16. 16. Display your processes only

```
[ghada@localhost ~]$ ps
PID TTY TIME CMD
3168 pts/0 00:00:05 bash
3820 pts/0 00:00:00 ps
```

17. Display all processes except yours

```
[ghada@localhost ~]$ ps -u ghada
PID TTY TIME CMD

2276 ? 00:00:02 systemd

2278 ? 00:00:00 (sd-pam)

2294 ? 00:00:00 gnome-keyring-d

2306 tty2 00:00:00 gdm-wayland-ses

2308 ? 00:00:00 dbus-broker-lau

2309 ? 00:00:00 dbus-broker

2311 tty2 00:00:00 gnome-session-b

2340 ? 00:00:00 gnome-session-c

2342 ? 00:00:00 gnome-session-b

2361 ? 00:00:07 gnome-shell

2369 ? 00:00:00 gvfsd

2374 ? 00:00:00 gvfsd-fuse

2377 ? 00:00:00 dbus-broker
```

18. Use the pgrep command to list your processes only

```
[ghada@localhost ~]$ pgrep -u ghada -l
2277 systemd
2279 (sd-pam)
2295 gnome-keyring-d
2307 gdm-wayland-ses
2309 dbus-broker-lau
2310 dbus-broker
2312 gnome-session-b
2341 gnome-session-c
2342 gnome-session-b
2359 gnome-shell
2367 gvfsd
2372 gvfsd-fuse
2381 at-spi-bus-laun
2386 dbus-broker-lau
2387 dbus-broker
2400 xdg-permission-
2403 gnome-shell-cal
2411 pipewire
2414 wireplumber
2415 pipewire-pulse
2448 evolution-sourc
```

## 19. kill your processes only

## Pkill -u ghada

20. make top run for 2 minutes and refresh every 30 seconds and sort by memory

```
20 0 591572 27768 19844 S 0.0 1.6 0:00.16 xdg-desktop-por
[ghada@localhost ~]$ top -d 30 -o %MEM -n 4
top - 15:30:30 up 6 min, 2 users, load average: 0.17, 0.48, 0.27
Tasks: 321 total, 1 running, 320 sleeping, 0 stopped, 0 zombie %Cpu(s): 0.0 us, 4.9 sy, 0.0 ni, 93.5 id, 0.0 wa, 1.6 hi, 0.0 si, 0.0 st
MiB Mem :
          1741.9 total,
                           89.1 free,
                                        1341.0 used,
                                                         482.5 buff/cache
MiB Swap:
           2064.0 total,
                           2061.7 free,
                                             2.2 used.
                                                         400.9 avail Mem
                 PR NI
                                   RES
                                                               TIME+ COMMAND
   PID USER
                                          SHR S %CPU %MEM
                           VIRT
                     0 732580 207180 22836 S
                                                             0:21.49 packagekitd
   1921 root
                 20
                                                0.0 11.6
   2338 ghada
                 20 0 4155708 194780 106036 S 0.0 10.9
                                                             0:12.12 gnome-shell
                                                             0:04.05 gnome-software
   2529 ghada
                 20 0 1028940 88036 44596 S
                                                0.0
                                                      4.9
   2852 ghada
                 20 0 200076 67828 48852 S 0.0 3.8
                                                             0:00.46 Xwayland
   2763 root
                 20 0 458488 66832 28672 S
                                                 0.0 3.7
                                                             0:01.61 rhsm-service
                 20 0 823544 60624 48896 S
   2859 ghada
                                                 0.0 3.4
                                                             0:00.21 gsd-xsettings
  2865 ghada
                 20 0 675868 58368 49024 S
                                                             0:00.19 ibus-x11
                                                 0.0 3.3
                 20
                     0 763548 50012 37372 S
                                                      2.8
   2957 ghada
                                                 0.0
                                                            0:03.73 gnome-terminal-
```