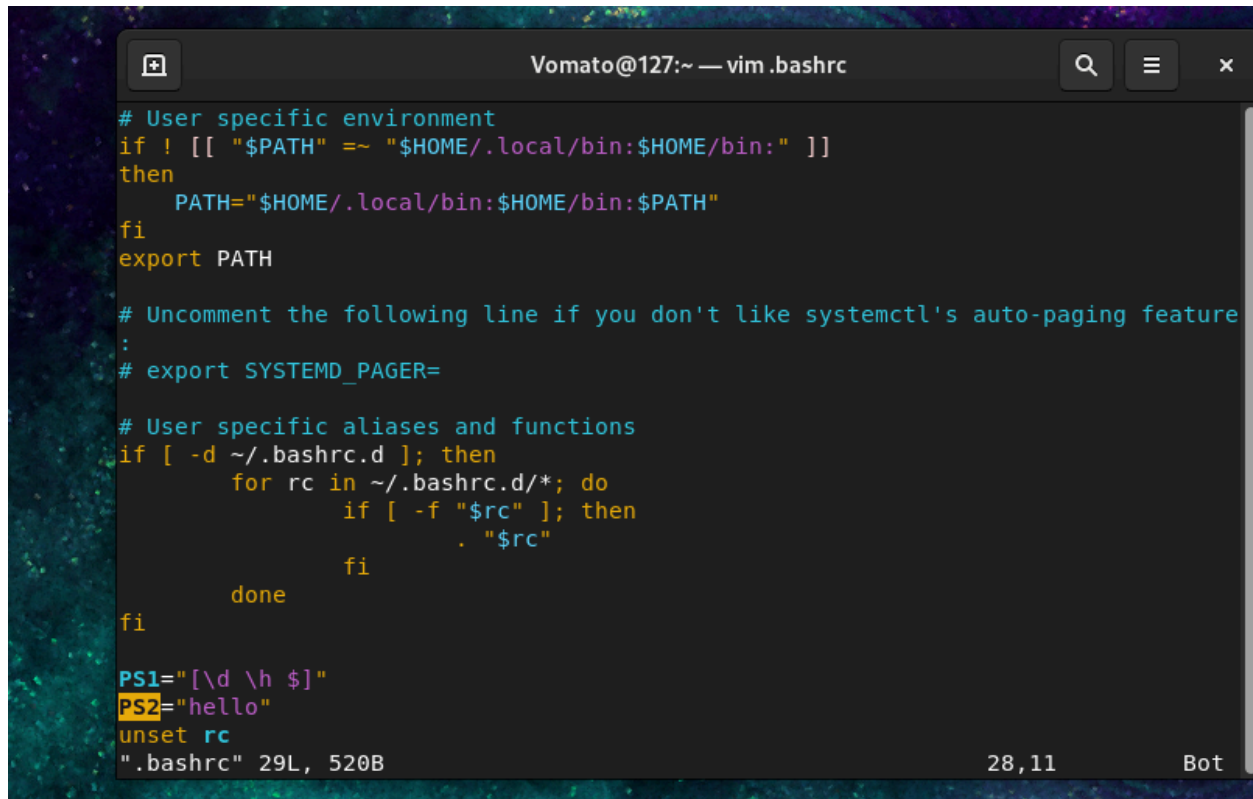


## Lab 3.2:

8-State the initialization files of sh,ksh,bash

The initialization file which is initiated on login shell is /etc/profile which points to profile.d/\*.sh

9- notify the date on login and change the shell

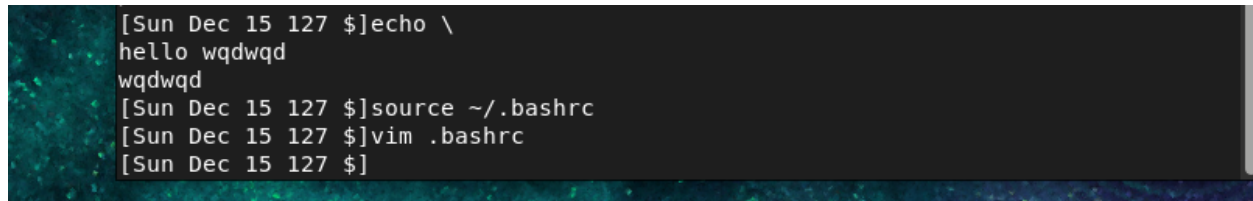


```
Vomato@127:~ — vim .bashrc
# User specific environment
if ! [[ "$PATH" =~ "$HOME/.local/bin:$HOME/bin:" ]]
then
    PATH="$HOME/.local/bin:$HOME/bin:$PATH"
fi
export PATH

# Uncomment the following line if you don't like systemctl's auto-paging feature
:
# export SYSTEMD_PAGER=

# User specific aliases and functions
if [ -d ~/.bashrc.d ]; then
    for rc in ~/.bashrc.d/*; do
        if [ -f "$rc" ]; then
            . "$rc"
        fi
    done
fi

PS1="[d \h $]"
PS2="hello"
unset rc
".bashrc" 29L, 520B                                     28,11      Bot
```

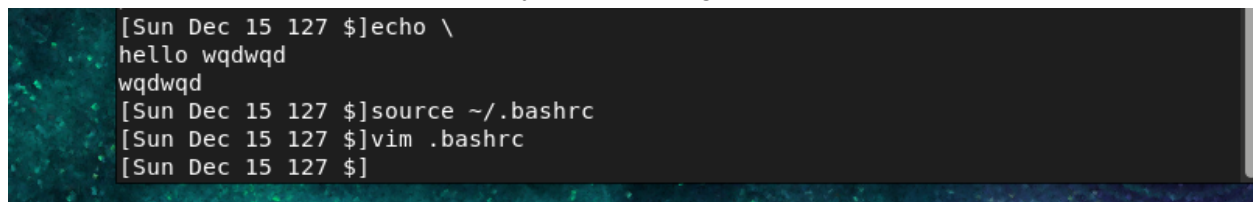


```
[Sun Dec 15 127 $]echo \
hello wqdwqd
wqdwqd
[Sun Dec 15 127 $]source ~/.bashrc
[Sun Dec 15 127 $]vim .bashrc
[Sun Dec 15 127 $]
```

10-echo \

The backslash as the last character in the line extends the line enabling you to complete the command in the next line and not run the command

The ">" character is called the secondary prompt string



```
[Sun Dec 15 127 $]echo \
hello wqdwqd
wqdwqd
[Sun Dec 15 127 $]source ~/.bashrc
[Sun Dec 15 127 $]vim .bashrc
[Sun Dec 15 127 $]
```

## LAB 4:

1- put the user commands into a file

```
17wx1wx1wx. 1 root root 4 Feb 8 2022 23:00:~> 23:00  
[Sun Dec 15 127 $]ls -l /usr/bin >> /tmp/commands.list
```

2- count number of commands

```
[Sun Dec 15 127 $]wc -l /tmp/commands.list  
1652 /tmp/commands.list  
[Sun Dec 15 127 $]
```

3- user starting with g

```
file.txt 0topasswd  
[Sun Dec 15 127 $]cat /etc/passwd | grep ^g  
games:x:12:100:games:/usr/games:/sbin/nologin  
geoclue:x:996:992:User for geoclue:/var/lib/geoclue:/sbin/nologin  
gdm:x:42:42:./var/lib/gdm:/sbin/nologin  
gnome-initial-setup:x:987:982:./run/gnome-initial-setup:/sbin/nologin  
[Sun Dec 15 127 $]
```

7- number of users who are now logged onto the system

```
[Sun Dec 15 127 $]who -q  
Vomato  
# users=1  
[Sun Dec 15 127 $]
```

8- lines 7 to 10

```
[Sun Dec 15 127 $]head -10 /etc/passwd| tail -3  
halt:x:7:0:halt:/sbin:/sbin/halt  
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin  
operator:x:11:0:operator:/root:/sbin/nologin  
[Sun Dec 15 127 $]
```

9a- cat file| cat file2

It will just cat file 2 and file1's output wouldnt be printed

9b- ls | rm

Wont be able to input the ls output into rm's input so missing operand

9c- ls /etc/passwd | wc -l

1 because its the output of the ls command of /etc/passwd

```
[Sun Dec 15 127 $]ls /etc/passwd | wc -l  
1  
[Sun Dec 15 127 $]ls /etc/passwd | wc -l  
1  
[Sun Dec 15 127 $]
```

10-11 sleep 100 then stopping it

```
[Sun Dec 15 127 $]sleep 100  
^Z  
[1]+  Stopped                  sleep 100  
[Sun Dec 15 127 $]
```

12 - run it in background

```
Vomato@127:~/folder1
[Sun Dec 15 127 $]sleep 100
^Z
[1]+  Stopped                  sleep 100
[Sun Dec 15 127 $]bg 1
[1]+  sleep 100 &
[Sun Dec 15 127 $]
```

13 - output of jobs

```
[1]+  sleep 100 &
[Sun Dec 15 127 $]jobs
[1]+  Running                  sleep 100 &
```

14 - send sleep to the foreground and the background again

```
[1]+  sleep 100 &
[Sun Dec 15 127 $]jobs
[1]+  Running                  sleep 100 &
[Sun Dec 15 127 $]fg 1
sleep 100
^Z
[1]+  Stopped                  sleep 100
[Sun Dec 15 127 $]bg 1
[1]+  sleep 100 &
[Sun Dec 15 127 $]
```

15- kill the sleep command

```
[Sun Dec 15 127 $]pkill -9 sleep
[1]-  Killed                  sleep 100
[2]+  Killed                  sleep 100
[Sun Dec 15 127 $]
```

the mouse pointer outside or press Ctrl-Alt.

16- show the current user processes

```

for additional help text.

For more details see ps(1).
[Sun Dec 15 127 $]ps -u
USER          PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
Vomato        1774  0.0  0.1 374140  5772 tty2      Ssl+  14:44   0:00 /usr/libexe
Vomato        1782  0.0  0.5 521368 21756 tty2      Sl+   14:44   0:00 /usr/libexe
Vomato        2625  0.0  0.1 224240  5700 pts/0     Ss    14:44   0:00 bash
Vomato        4555  0.0  0.0 225496  3548 pts/0     R+    16:06   0:00 ps -u
[Sun Dec 15 127 $]man ps
[Sun Dec 15 127 $]

```

17- show all processes except user processes

```

Vomato@127:~
[Sun Dec 15 127 $]pgrep -lvu Vomato
1 systemd
2 kthreadd
3 rcu_gp
4 rcu_par_gp
5 netns
7 kworker/0:0H-events_highpri
9 kworker/0:1H-events_highpri
10 mm_percpu_wq
12 rcu_tasks_kthre
13 rcu_tasks_rude_
14 rcu_tasks_trace
15 ksoftirqd/0
16 rcu_preempt
17 migration/0
18 kworker/0:1-events
19 cpuhp/0
20 cpuhp/1

```

18- show the current user processes

```
[Sun Dec 15 127 $]pgrep -lu Vomato
1742 systemd
1743 (sd-pam)
1765 gnome-keyring-d
1774 gdm-wayland-ses
1777 dbus-broker-lau
1779 dbus-broker
1782 gnome-session-b
1827 gnome-session-c
1829 gnome-session-b
1849 gnome-shell
1902 gvfsd
1909 gvfsd-fuse
1920 at-spi-bus-laun
1926 dbus-broker-lau
1927 dbus-broker
1966 xdg-permission-
1970 gnome-shell-cal
1980 evolution-sourc
1985 goa-daemon
1986 pipewire
```

19- kill all processes of the user

Pkill -u Vomato

Will kill all processes by the user