

Linux Environment

1. How can you know what is the secondary command prompt set your system? How can you change the secondary command prompt from the default to your username?

Ans: `echo $PS2`

To set ps2 to our username: `PS2="$USERNAME> "`

```
bgmadhavan@bgm-virtual-machine:~/demodir$ echo $PS2
>
bgmadhavan@bgm-virtual-machine:~/demodir$ PS2="$USERNAME >"
bgmadhavan@bgm-virtual-machine:~/demodir$ echo $PS2
bgmadhavan >
bgmadhavan@bgm-virtual-machine:~/demodir$
```

2. How can you ensure that the mv command (used for renaming a file) always asks for permission before overwriting an existing destination file?

Ans: `mv -i file1 destination.`

```
bgmadhavan@bgm-virtual-machine:~/demodir$ mv -i test1 inside_demo
mv: overwrite 'inside_demo/test1'? Y
bgmadhavan@bgm-virtual-machine:~/demodir$
```

1) Create a new user account and home directory called "Duck"

Ans: `sudo adduser`

Enter the password

Sudo adduser Duck

```
duck1@bgm-virtual-machine:/home/bgmadhavan$ id
uid=1002(duck1) gid=1002(duck1) groups=1002(duck1)
duck1@bgm-virtual-machine:/home/bgmadhavan$
```

2) Set the user account "Duck's" expiry date as 07 - 01 - 2015

Ans: `sudo usermod -e 2015-01-07 duck`

```
duck1@bgm-virtual-machine:/home/bgmadhavan$ cd
duck1@bgm-virtual-machine:~$ su bgmadhavan
Password:
bgmadhavan@bgm-virtual-machine:/home/duck1$ sudo usermod -e 2023-09-15 duck1
bgmadhavan@bgm-virtual-machine:/home/duck1$
```

3) find the id of the user account "Duck"

Ans: `id -u duck`

```
bgmadhavan@bgm-virtual-machine:/home/duck1$ sudo usermod -e 2023-
bgmadhavan@bgm-virtual-machine:/home/duck1$ id -u duck1
1002
bgmadhavan@bgm-virtual-machine:/home/duck1$
```

4) Type df and du commands and see the output on your terminal.

Ans: df

Du

```
bgmadhavan@bgm-virtual-machine:/home/duck1$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
tmpfs            396452      2000    394452   1% /run
/dev/sda3       19946096 13172728   5734828  70% /
tmpfs           1982240        0   1982240   0% /dev/shm
tmpfs           5120         4     5116   1% /run/lock
/dev/sda2       524252      6216   518036   2% /boot/efi
tmpfs          396448      116   396332   1% /run/user/1000
/dev/sr1       4919592 4919592        0 100% /media/bgmadhavan/Ubuntu 22.04.
3 LTS amd64
/dev/sr0       159128    159128        0 100% /media/bgmadhavan/CDROM
```

```
bgmadhavan@bgm-virtual-machine:/home$ du
du: cannot read directory './duck': Permission denied
4      ./duck
4      ./bgmadhavan/.config/gnome-session/saved-session
8      ./bgmadhavan/.config/gnome-session
4      ./bgmadhavan/.config/update-notifier
8      ./bgmadhavan/.config/gtk-3.0
12     ./bgmadhavan/.config/ibus/bus
16     ./bgmadhavan/.config/ibus
68     ./bgmadhavan/.config/pulse
4      ./bgmadhavan/.config/goa-1.0
8      ./bgmadhavan/.config/dconf
4      ./bgmadhavan/.config/nautilus
16     ./bgmadhavan/.config/evolution/sources
20     ./bgmadhavan/.config/evolution
156    ./bgmadhavan/.config
12     ./bgmadhavan/.local/share/keyrings
4      ./bgmadhavan/.local/share/icc
4      ./bgmadhavan/.local/share/sounds
4      ./bgmadhavan/.local/share/flatpak/db
8      ./bgmadhavan/.local/share/flatpak
4      ./bgmadhavan/.local/share/ibus-table
76     ./bgmadhavan/.local/share/gvfs-metadata
```

5) Type this command on the terminal and see the output :

`du -ch *.txt`

Ans: du -ch *.txt

6) Delete the user account "Duck" permanently along with its home folder.

Ans: sudo userdel -r duck