

Lab 03 – Linux

By: Sharaf

1. Using vi write your CV in the file mycv. Your CV should include your name, age, school, college, experience,...

```
sharaf@sharaf:~$ vi mycv
sharaf@sharaf:~$ ls
Desktop  Documents  Downloads  Music  mycv
```

```
sharaf@sharaf:~$ sudo cat mycv
[sudo] password for sharaf:
Name : Ahmed Sharaf
Age : 23 years
Education :
        Faculty of engineering , zagazig university
        Department Computer and System Engineer
Training :
        Ai At ITI
```

2. open mycv file using vi command then: Without using arrows state how to:

a. Move the cursor down one line at time. -> (j)

```
Name : Ahmed Sharaf
Age : 23 years
Education :
        Faculty of engineering , zagazig university
        Department Computer and System Engineer
Training :
        Ai At ITI
```

b. Move the cursor up one line at time. -> (k)

```
Name : Ahmed Sharaf
Age : 23 years
Education :
        Faculty of engineering , zagazig university
        Department Computer and System Engineer
Training :
        Ai At ITI
```

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c. Search for word age -> /Age

```
Name : Ahmed Sharaf
Age : 23 years
Education :
    Faculty of engineering , zagazig university
    Department Computer and System Engineer
Training :
    Ai At ITI
```

/ Age

c. Step to line 5 (assuming that you are in line 1 and file is more than 5 lines). -
> (:5)

```
1 Name : Ahmed Sharaf
2 Age : 23 years
3 Education :
4     Faculty of engineering , zagazig university
5     Department Computer and System Engineer
6 Training :
7     Ai At ITI
8
```

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d. Delete the line you are on and line 5.

- dd (delete current line)
- :5d (delete line 5)

```
Age : 23 years
Education :
    Faculty of engineering , zagazig university
    Department Computer and System Engineer
    Ai At ITI
```

e. How to step to the end of line and change to writing mode in one-step.

```
Age : 23 years
Education :
    Faculty of engineering , zagazig university
    Department Computer and System Engineer
    Ai At ITI
```

3. List the available shells in your system.

```
sharaf@sharaf:~$ cat /etc/shells
# /etc/shells: valid login shells
/bin/sh
/usr/bin/sh
/bin/bash
/usr/bin/bash
/bin/rbash
/usr/bin/rbash
/usr/bin/dash
sharaf@sharaf:~$
```

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4. List the environment variables in your current shell.

```
sharaf@sharaf:~$ env
SHELL=/bin/bash
SESSION_MANAGER=local/sharaf:@/tmp/.ICE-unix/3636,unix/sharaf:/tmp/.ICE-unix/3636
QT_ACCESSIBILITY=1
COLORTERM=truecolor
XDG_CONFIG_DIRS=/etc/xdg/xdg-ubuntu:/etc/xdg
XDG_MENU_PREFIX=gnome-
GNOME_DESKTOP_SESSION_ID=this-is-deprecated
GNOME_SHELL_SESSION_MODE=ubuntu
SSH_AUTH_SOCK=/run/user/1000/keyring/ssh
MEMORY_PRESSURE_WRITE=c29tZSAyMDAwMDAgMjAwMDAwMAA=
XMODIFIERS=@im=ibus
```

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

env

printenv

bash -c "env"

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

echo \$

7. Display your current shell name.

```
sharaf@sharaf:~$ echo $SHELL
/bin/bash
```

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

Sh	Ksh	Bash
/etc/profile	/etc/profile	/etc/profile
~/.profile	~/.profile	~/.bash_profile
	~/.kshrc	~/.bash_login
		~/.profile
		~/.bashrc

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

```
Mon Nov  3 03:06:20 PM EET 2025  
Sharaf $
```

10. Execute the following command :

\ -> To Continue Writing

```
sharaf@sharaf:~$ PS2=': '  
sharaf@sharaf:~$ echo \  
:
```

11. Create a Bash shell alias named ls for the “ls -l” command

```
sharaf@sharaf:~$ alias ls="ls -l"  
sharaf@sharaf:~$ ls  
total 48  
drwxr-xr-x 2 sharaf sharaf 4096 Oct 31 14:16 Desktop  
drwxr-xr-x 2 sharaf sharaf 4096 Oct 31 14:16 Documents  
drwxr-xr-x 2 sharaf sharaf 4096 Oct 31 14:16 Downloads  
drwxr-xr-x 2 sharaf sharaf 4096 Oct 31 14:16 Music  
-rwxrwxrwx 1 sharaf sharaf  157 Nov  3 14:32 mycv  
-rw--wx--x 1 root  root  2905 Nov  3 13:49 oldpasswd  
drwxr-xr-x 2 sharaf sharaf 4096 Oct 31 14:16 Pictures  
drwxr-xr-x 2 sharaf sharaf 4096 Oct 31 14:16 Public  
drwx----- 5 sharaf sharaf 4096 Nov  1 12:00 snap  
drwxr-xr-x 2 sharaf sharaf 4096 Oct 31 14:16 Templates  
d----- 2 sharaf sharaf 4096 Nov  3 13:55 testdir  
----- 1 sharaf sharaf    0 Nov  3 13:55 testfile  
drwxr-xr-x 2 sharaf sharaf 4096 Oct 31 14:16 Videos
```