

Name: Kerolos Youssef Ghobrial

LAB 4: Linux

### Q1.

```
[kerolosyoussef@localhost ~]$ vi mycv
[kerolosyoussef@localhost ~]$ cat mycv

CV

Kerolos Youssef
Age : 23 years
School: Hosh Issa secondary school
college : Faculty of Engineering, Alexandria University
Experience : 3 months scholarship in ITI - Digital IC Design track
```

# Q2.

- a) Type j in command mode
- b) Type k in command mode
- c) Type /Age in last line mode
- d) Type 5G in command mode
- e) To delete current line, type dd in command mode, to delete line 5 --> 5,5d in last line mode or :5d
- f) Type A in command mode

### Q3.

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

#### Q4.

```
[kerolosyoussef@localhost ~]$ env
LS COLORS=rs=0:di=38;5;33:ln=38;5;51:mh=00:pi=40;38;5;11:so=38;5;13:do=38;5;5:bd
=48;5;232;38;5;11:cd=48;5;232;38;5;3:or=48;5;232;38;5;9:mi=01;05;37;41:su=48;5;1
96;38;5;15:sg=48;5;11;38;5;16:ca=48;5;196;38;5;226:tw=48;5;10;38;5;16:ow=48;5;10
;38;5;21:st=48;5;21;38;5;15:ex=38;5;40:*.tar=38;5;9:*.tgz=38;5;9:*.arc=38;5;9:*.
arj=38;5;9:*.taz=38;5;9:*.lha=38;5;9:*.lz4=38;5;9:*.lzh=38;5;9:*.lzma=38;5;9:*.t
lz=38;5;9:*.txz=38;5;9:*.tzo=38;5;9:*.t7z=38;5;9:*.zip=38;5;9:*.z=38;5;9:*.dz=38
;5;9:*.gz=38;5;9:*.lrz=38;5;9:*.lz=38;5;9:*.lzo=38;5;9:*.xz=38;5;9:*.zst=38;5;9:
*.tzst=38;5;9:*.bz2=38;5;9:*.bz=38;5;9:*.tbz=38;5;9:*.tbz2=38;5;9:*.tz=38;5;9:*.
deb=38;5;9:*.rpm=38;5;9:*.jar=38;5;9:*.war=38;5;9:*.ear=38;5;9:*.sar=38;5;9:*.ra
r=38;5;9:*.alz=38;5;9:*.ace=38;5;9:*.zoo=38;5;9:*.cpio=38;5;9:*.7z=38;5;9:*.rz=3
8;5;9:*.cab=38;5;9:*.wim=38;5;9:*.swm=38;5;9:*.dwm=38;5;9:*.esd=38;5;9:*.jpg=38;
5;13:*.jpeg=38;5;13:*.mjpg=38;5;13:*.mjpeg=38;5;13:*.gif=38;5;13:*.bmp=38;5;13:*
.pbm=38;5;13:*.pgm=38;5;13:*.ppm=38;5;13:*.tga=38;5;13:*.xbm=38;5;13:*.xpm=38;5;
13:*.tif=38;5;13:*.tiff=38;5;13:*.png=38;5;13:*.svg=38;5;13:*.svgz=38;5;13:*.mng
=38;5;13:*.pcx=38;5;13:*.mov=38;5;13:*.mpg=38;5;13:*.mpeg=38;5;13:*.m2v=38;5;13:
*.mkv=38;5;13:*.webm=38;5;13:*.ogm=38;5;13:*.mp4=38;5;13:*.m4v=38;5;13:*.mp4v=38
;5;13:*.vob=38;5;13:*.qt=38;5;13:*.nuv=38;5;13:*.wmv=38;5;13:*.asf=38;5;13:*.rm=
38;5;13:*.rmvb=38;5;13:*.flc=38;5;13:*.avi=38;5;13:*.fli=38;5;13:*.flv=38;5;13:*
.gl=38;5;13:*.dl=38;5;13:*.xcf=38;5;13:*.xwd=38;5;13:*.yuv=38;5;13:*.cgm=38;5;13
:*.emf=38;5;13:*.ogv=38;5;13:*.ogx=38;5;13:*.aac=38;5;45:*.au=38;5;45:*.flac=38;
5;45:*.m4a=38;5;45:*.mid=38;5;45:*.midi=38;5;45:*.mka=38;5;45:*.mp3=38;5;45:*.mp
c=38;5;45:*.ogg=38;5;45:*.ra=38;5;45:*.wav=38;5;45:*.oga=38;5;45:*.opus=38;5;45:
*.spx=38;5;45:*.xspf=38;5;45:
```

#### 05.

#### [kerolosyoussef@localhost ~]\$ man bash

```
Shell Variables
       The following variables are set by the shell:
       BASH
              Expands to the full filename used to invoke this instance of
              bash.
       BASHOPTS
              A colon-separated list of enabled shell options. the list is a valid argument for the -s option t
                                                                      Each word in
                                                           option to the shopt
              builtin command (see SHELL BUILTIN COMMANDS below).
                                                                       The options
              appearing in BASHOPTS are those reported as
                                                                       shopt.
                                                              on by
                                   in the environment when bash starts up, each
              this
                    variable is
              shell option in the list will be enabled
                                                              before reading
              startup files.
                              This variable is read-only.
       BASHPID
              Expands to the process ID of the current bash process. differs from $$ under certain circumstances, such as sub-
                                                                               This
                                                                     as subshells
              that do not require bash to be re-initialized.
       BASH ALIASES
              An associative array variable whose members correspond to the
              internal list of aliases as maintained by the alias builtin.
              Elements added to this array appear in the alias list; however,
              unsetting array elements currently does not cause aliases
Manual page bash(1) line 775/5947 13% (press h for help or q to quit)
```

## Q6.

```
[kerolosyoussef@localhost ~]$ echo $HOME
/home/kerolosyoussef
[kerolosyoussef@localhost ~]$ printenv HOME
/home/kerolosyoussef
```

# Q7.

```
[kerolosyoussef@localhost ~]$ printenv SHELL /bin/bash
```

### Q8.

Initialization files in bash: .bashrc, .profile, .bash profile

Initialization files in sh: .profile

Initialization files in ksh: .profile, .kshrc

# Q9.

[kerolosyoussef@localhost ~]\$ bash Wed Aug 30 16:04:50 EET 2023 kero>

#### Q11.

```
[kerolosyoussef@localhost ~]$ alias ls="ls -l"
[kerolosyoussef@localhost ~]$ ls
total 8
drwxr-xr-x. 2 kerolosyoussef kerolosyoussef
                                              6 Aug 27 16:00 Desktop
drwxrwxr-x. 2 kerolosyoussef kerolosyoussef
                                              18 Aug 27 16:26 docs
drwxr-xr-x. 2 kerolosyoussef kerolosyoussef
                                              6 Aug 27 16:00 Documents
drwxr-xr-x. 2 kerolosyoussef kerolosyoussef
                                              6 Aug 27 16:00 Downloads
-r--r--r-. 1 kerolosyoussef kerolosyoussef
                                              0 Aug 29 17:20 file1
d-w--wx--x. 3 kerolosyoussef kerolosyoussef
                                              20 Aug 29 16:24 kero
drwx-----. 3 kerolosyoussef kerolosyoussef
                                             19 Aug 29 16:33 kero2
drwx-----. 2 kerolosyoussef kerolosyoussef
                                             19 Aug 29 16:46 kero3
d-wx-----. 3 kerolosyoussef kerolosyoussef
                                             19 Aug 29 16:42 kero4
d-wx---r-x. 2 kerolosyoussef kerolosyoussef
                                             19 Aug 29 16:50 kero5
dr-x----. 2 kerolosyoussef kerolosyoussef
                                              6 Aug 29 17:01 kero6
drwxr-xr-x. 2 kerolosyoussef kerolosyoussef
                                              6 Aug 27 16:00 Music
-rw-rw-r--. 1 kerolosyoussef kerolosyoussef
                                            261 Aug 30 15:13 mycv
dr-xr-xr-x. 2 kerolosyoussef kerolosyoussef
                                              6 Aug 29 15:17 myteam
-rw--wx--x. 1 kerolosyoussef kerolosyoussef 2538 Aug 27 16:54 oldpasswd
drwxr-xr-x. 2 kerolosyoussef kerolosyoussef
                                              6 Aug 27 16:00 Pictures
drwxr-xr-x. 2 kerolosyoussef kerolosyoussef
                                               6 Aug 27 16:00 Public
drwxr-xr-x. 2 kerolosyoussef kerolosyoussef
                                              6 Aug 27 16:00 Templates
drwxr-xr-x. 2 kerolosyoussef kerolosyoussef
                                              6 Aug 27 16:00 Videos
```