# AdminLinux\_Task3

# **Section 2:**

**Q1**:

```
alaa@alaaHP:~$ history >> /tmp/commands.list
alaa@alaaHP:~$ cat /tmp/commands.list
   1 sudo apt update
   2 cd /home
   3 git clone "git@github.com:Alaa-Ghita/Embedded-Linux.git"
   4 sudo apt install git
   5 cd /home
   6 git clone "git@github.com:Alaa-Ghita/Embedded-Linux.git"
      ssh-keygen -t ed25519 -C "your_email@example.com"
     ssh-keygen -t ed25519 -C "alaa.ghita379@gmail.com"
      git clone "git@github.com:Alaa-Ghita/Embedded-Linux.git"
  10 git clone git@github.com:Alaa-Ghita/Embedded-Linux.git
  11 git --version
  12 git config --global user.email "alaa.ghita379@gmail.com"
      git config --global user.name "AlaaGhita"
  14 git clone git@github.com:Alaa-Ghita/Embedded-Linux.git
  15 git clone https://github.com/Alaa-Ghita/Embedded-Linux.git
  16 git clone git@github.com:Alaa-Ghita/Embedded-Linux.git
  17 git clone "git@github.com:Alaa-Ghita/Embedded-Linux.git"
  18 cd /home/alaa
  19    qit clone "qit@qithub.com:Alaa-Ghita/Embedded-Linux.qit"
  20 git clone "git@github.com:Alaa-Ghita/Embedded-Linux.git~"
```

# **Q2**:

The .profile file has been edited, but the changes didn't appear when switching from one user to another.

```
date
echo this is profile
```

### **Q3**:

The wc command shows the number of lines, words, characters, or bytes in a file or an output of another command.

```
alaa@alaaHP:~$ ls -a1| wc -l
```

```
alaa@alaaHP:~$ history | wc -l
646
alaa@alaaHP:~$
```

## **Q4**:

**a.** It shows the content of filename2 only.

- **b.** Only the rm command will execute and remove the file
- **c.** It only displays the number 1, because ls is used to list the content of a directory not a file, and /*etc*/passwd is a file so it displays the directory this file only, which is in one line.

```
alaa@alaaHP:~$ ls /etc/passwd | wc -l
1
alaa@alaaHP:~$ ls /etc/passwd
/etc/passwd
alaa@alaaHP:~$
```

#### **Q5**:

```
alaa@alaaHP:~/Embedded-Linux$ locate .profile
/etc/skel/.profile
/snap/core20/1974/etc/skel/.profile
/snap/core20/1974/usr/share/base-files/dot.profile
/snap/core20/1974/usr/share/base-files/dot.profile.md5sums
/snap/core20/1974/usr/share/lintian/profiles/dpkg/main.profile
/snap/core20/1974/usr/share/opensc/asepcos.profile
/snap/core20/1974/usr/share/opensc/authentic.profile
/snap/core20/1974/usr/share/opensc/cardos.profile
/snap/core20/1974/usr/share/opensc/cyberflex.profile
/snap/core20/1974/usr/share/opensc/entersafe.profile
/snap/core20/1974/usr/share/opensc/epass2003.profile
/snap/core20/1974/usr/share/opensc/flex.profile
/snap/core20/1974/usr/share/opensc/gids.profile
/snap/core20/1974/usr/share/opensc/gpk.profile
/snap/core20/1974/usr/share/opensc/ias adele admin1.profile
/snap/core20/1974/usr/share/opensc/ias adele admin2.profile
/snap/core20/1974/usr/share/opensc/ias adele common.profile
/snap/core20/1974/usr/share/opensc/iasecc.profile
/snap/core20/1974/usr/share/opensc/iasecc admin eid.profile
/snap/core20/1974/usr/share/opensc/iasecc generic oberthur.profile
/snap/core20/1974/usr/share/opensc/iasecc generic pki.profile
/snap/core20/1974/usr/share/opensc/incrypto34.profile
/snap/core20/1974/usr/share/opensc/isoApplet.profile
/snap/core20/1974/usr/share/opensc/jcop.profile
/snap/core20/1974/usr/share/opensc/miocos.profile
/snap/core20/1974/usr/share/opensc/muscle.profile
/snap/core20/1974/usr/share/opensc/myeid.profile
/snap/core20/1974/usr/share/opensc/oberthur.profile
/snap/core20/1974/usr/share/opensc/openpgp.profile
/snap/core20/1974/usr/share/opensc/pkcs15.profile
/snap/core20/1974/usr/share/opensc/rutoken.profile
/snap/core20/1974/usr/share/opensc/rutoken ecp.profile
/snap/core20/1974/usr/share/opensc/rutoken lite.profile
/snan/core20/1974/usr/share/opensc/sc-hsm profile
```

#### **Q6**:

```
alaa@alaaHP:~$ stat /etc
 File: /etc
                                          IO Block: 4096
 Size: 12288
                       Blocks: 24
                                                           directory
Device: 816h/2070d
                       Inode: 6291457
                                          Links: 129
Access: (0755/drwxr-xr-x) Uid: ( 0/
                                          root) Gid: (
                                                            0/
                                                                  root)
Access: 2023-12-09 18:56:54.414388863 +0200
Modify: 2023-12-08 12:19:40.891818803 +0200
Change: 2023-12-08 12:19:40.891818803 +0200
Birth: 2023-11-23 15:48:52.663391540 +0200
alaa@alaaHP:~$ stat /
 File: /
 Size: 4096
                       Blocks: 8
                                          IO Block: 4096
                                                           directory
Device: 816h/2070d
                       Inode: 2
                                          Links: 20
Access: (0755/drwxr-xr-x) Uid: (
                                          root)
                                                  Gid: (
                                                          0/ root)
                                   0/
Access: 2023-12-08 22:02:58.796440444 +0200
Modify: 2023-11-23 15:55:21.567401498 +0200
Change: 2023-11-23 15:55:21.567401498 +0200
Birth: 2023-11-23 15:48:06.000000000 +0200
alaa@alaaHP:~$ stat /etc/hosts
 File: /etc/hosts
 Size: 221
                       Blocks: 8
                                          IO Block: 4096 regular file
Device: 816h/2070d
                       Inode: 6291621
                                          Links: 1
Access: (0644/-rw-r--r--) Uid: (
                                    0/
                                          root)
                                                  Gid: (
                                                            0/
                                                                  root)
Access: 2023-12-09 18:51:17.210380229 +0200
Modify: 2023-11-23 15:55:16.367401365 +0200
Change: 2023-11-23 15:55:16.367401365 +0200
Birth: 2023-11-23 15:48:55.647391617 +0200
```

# **Q7**:

```
alaa@alaaHP:~$ sudo ln -s /etc/passwd /boot
[sudo] password for alaa:
Sorry, try again.
[sudo] password for alaa:
alaa@alaaHP:~$ sudo ln -s /etc/passwd /boot
ln: failed to create symbolic link '/boot/passwd': File exists
```

```
alaa@alaaHP:/boot$ ls -l
total 186664
-rw-r--r-- 1 root root  275465 Jul 13 16:22 config-6.2.0-26-generic
                               2 19:02 config-6.2.0-37-generic
rw-r--r-- 1 root root 275553 Nov
drwx----- 5 root root
                                  1970 efi
                      4096 Jan
                               1
drwxr-xr-x 6 root root
                      4096 Nov 23 20:34 grub
                        27 Nov 23 20:32 initrd.img -> initrd.img-6.
lrwxrwxrwx 1 root root
rw-r--r-- 1 root root 76888547 Dec
                               4 18:07 initrd.img-6.2.0-26-generic
rw-r--r-- 1 root root 69609148 Dec  4 18:06 initrd.img-6.2.0-37-generic-
lrwxrwxrwx 1 root root
                        27 Nov 23 15:48 initrd.img.old -> initrd.im
rw-r--r-- 1 root root 184476 Feb 6 2022 memtest86+.elf
11 Dec 9 22:28 passwd -> /etc/passwd
lrwxrwxrwx 1 root root
    ----- 1 root root 7963097 Jul 13 16:22 System.man-6.2.0-26-generic
```

## **Q8**:

No, because the same file exists when I made it with the soft link. But after changing the name and using sudo, I can make it.

```
alaa@alaaHP:~$ In /etc/passwd /boot
ln: failed to create hard link '/boot/passwd': File exists
alaa@alaaHP:~$ In /etc/passwd /boot/hard
ln: failed to create hard link '/boot/hard' => '/etc/passwd': Operation not permitted
alaa@alaaHP:~$ sudo ln /etc/passwd /boot/hard
alaa@alaaHP:~$ ls -l /boot
total 186668
-rw-r--r-- 1 root root 275465 Jul 13 16:22 config-6.2.0-26-generic
-rw-r--r-- 1 root root 275553 Nov 2 19:02 config-6.2.0-37-generic
drwx----- 5 root root 4096 Jan 1 1970 eft
                          4096 Nov 23 20:34 grub
drwxr-xr-x 6 root root
-rw-r--r-- 2 root root 2884 Dec 8 12:19 hard 1 rwxrwxrwx 1 root root 27 Nov 23 20:32 initro
                           27 Nov 23 20:32 initrd.img -> initrd.img-6.2.0-37-generic
-rw-r--r-- 1 root root 76888547 Dec 4 18:07 initrd.img-6.2.0-26-generic
-rw-r--r-- 1 root root 69609148 Dec 4 18:06 initrd.img-6.2.0-37-generic
lrwxrwxrwx 1 root root 27 Nov 23 15:48 initrd.img.old -> initrd.img-6.2.0-26-generic
-rw-r--r-- 1 root root 182800 Feb 6 2022 memtest86+.bin
-rw-r--r-- 1 root root 184476 Feb 6 2022 memtest86+.elf
-rw-r--r-- 1 root root 184980 Feb 6 2022 memtest86+_multiboot.bin
                            11 Dec 10 11:00 passwd -> /etc/passwd
lrwxrwxrwx 1 root root
-rw------ 1 root root 7963097 Jul 13 16:22 System.map-6.2.0-26-generic
-rw------ 1 root root 7976179 Nov 2 19:02 System.map-6.2.0-37-generic
lrwxrwxrwx 1 root root 24 Nov 23 20:32 vmlinuz -> vmlinuz-6.2.0-37-generic
-rw-r--r-- 1 root root 13770312 Nov 20 20:32 vmlinuz-6.2.0-26-generic
-rw------ 1 root root 13798728 Nov 2 19:04 vmlinuz-6.2.0-37-generic
lrwxrwxrwx 1 ro<u>o</u>t root
                       24 Nov 23 20:32 vmlinuz.old -> vmlinuz-6.2.0-26-generic
alaa@alaaHP:~$
```

## **Q9**:

```
alaa@alaaHP:~$ PS2=:
alaa@alaaHP:~$ echo \
:This is Alaa
This is Alaa
alaa@alaaHP:~$ [
```