# Rahma Farag – G2 – Nasr City Lab 5

```
Question 1:
```

```
rahma@rahma-Lenovo:~$ ls /usr/bin > /tmp/commands.list
```

```
Question 2:
```

```
rahma@rahma-Lenovo:~/zipdir$ touch file1
```

rahma@rahma-Lenovo:~/zipdir\$ ls

file1

rahma@rahma-Lenovo:~/zipdir\$ gzip file1

rahma@rahma-Lenovo:~/zipdir\$ ls

file1.gz

## Question 4:

```
rahma@rahma-Lenovo:~/zipdir$ tar -cvf etc.tar /etc
```

rahma@rahma-Lenovo:~/zipdir\$ ls

etc.tar file1.gz

## Question 5:

```
rahma@rahma-Lenovo:~$ find /home/rahma -mtime -2
```

```
Question 6:
```

rahma@rahma-Lenovo:~\$ find /etc -user root 2> /dev/null

## Question 7:

rahma@rahma-Lenovo:~\$ find /home/rahma -type d

## **Question 8:**

rahma@rahma-Lenovo:~\$ find / -name .profile 2> /dev/null

## Question 9:

rahma@rahma-Lenovo:~\$ file /etc/passwd /dev/pts/0 /etc /dev/sda

/etc/passwd: ASCII text

/dev/pts/0: character special (136/0)

/etc: directory

/dev/sda: block special (8/0)

## Question 10:

rahma@rahma-Lenovo:~\$ ls -ild / /etc /etc/hosts

2 drwxr-xr-x 20 root root 4096 Nov 2 18:00 /

1179649 drwxr-xr-x 130 root root 12288 Nov 6 09:23 /etc

1179813 -rw-r--r-- 1 root root 227 Nov 2 18:00 /etc/hosts

rahma@rahma-Lenovo:~\$ ls -il /etc/hosts

1179813 -rw-r--r-- 1 root root 227 Nov 2 18:00 /etc/hosts

## Question 11:

rahma@rahma-Lenovo:~\$ cp /etc/passwd cppasswd rahma@rahma-Lenovo:~\$ diff /etc/passwd cppasswd rahma@rahma-Lenovo:~\$ cmp /etc/passwd cppasswd rahma@rahma-Lenovo:~\$ vi cppasswd rahma@rahma-Lenovo:~\$ cmp /etc/passwd cppasswd cmp: EOF on /etc/passwd after byte 3039, line 51 rahma@rahma-Lenovo:~\$ diff /etc/passwd cppasswd 51a52,53

>

> baduser2:x:1003:1004:Bad User2:/home/baduser2:/bin/sh

cmp - compare two files byte by	diff - compare files line by line
byte	

## Question 12:

rahma@rahma-Lenovo:~\$ sudo ln -s /etc/passwd /boot rahma@rahma-Lenovo:~\$ ls -ild /etc/passwd /boot/passwd 308 lrwxrwxrwx 1 root root 11 Nov 7 10:58 /boot/passwd -> /etc/passwd 1187517 -rw-r--r-- 1 root root 3039 Nov 4 15:34 /etc/passwd

## Question 13:

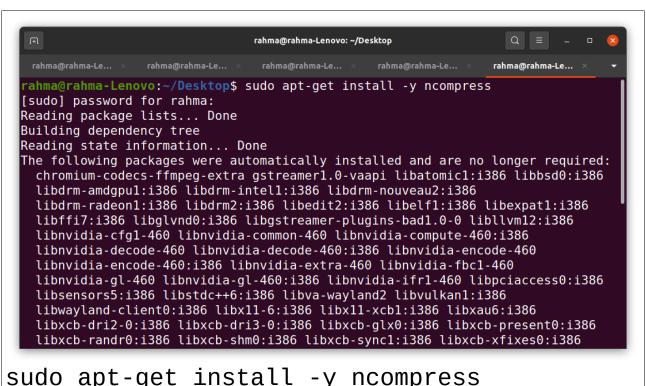
## rahma@rahma-Lenovo:~\$ ln /etc/passwd /boot

*In: failed to create hard link '/boot/passwd' => '/etc/passwd': Invalid cross-device link* 

We can't as it is not in the same partition we can only hardlink files on the same partition

## **Lab 5 – part 1**

## Question 1:



sudo apt-get install -y ncompress

```
rahma@rahma-Lenovo: ~/Desktop
Unpacking ncompress (4.2.4.6-1) ...
Setting up ncompress (4.2.4.6-1) ...
Processing triggers for man-db (2.9.1-1) ...
rahma@rahma-Lenovo:~/Desktop$ sudo apt-get install -y ksh
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  chromium-codecs-ffmpeg-extra gstreamer1.0-vaapi libatomic1:i386 libbsd0:i386
  libdrm-amdgpu1:i386 libdrm-intel1:i386 libdrm-nouveau2:i386
  libdrm-radeon1:i386 libdrm2:i386 libedit2:i386 libelf1:i386 libexpat1:i386
  libffi7:i386 libglvnd0:i386 libgstreamer-plugins-bad1.0-0 libllvm12:i386
  libnvidia-cfg1-460 libnvidia-common-460 libnvidia-compute-460:i386
  libnvidia-decode-460 libnvidia-decode-460:i386 libnvidia-encode-460
  libnvidia-encode-460:i386 libnvidia-extra-460 libnvidia-fbc1-460
  libnvidia-gl-460 libnvidia-gl-460:i386 libnvidia-ifr1-460 libpciaccess0:i386
  libsensors5:i386 libstdc++6:i386 libva-wayland2 libvulkan1:i386
  libwayland-client0:i386 libx11-6:i386 libx11-xcb1:i386 libxau6:i386
```

## sudo apt-get install -y ksh

## Question 2:

rahma@rahma-Lenovo:~/zipdir\$ touch fileg fileb
rahma@rahma-Lenovo:~/zipdir\$ gzip fileg
rahma@rahma-Lenovo:~/zipdir\$ bzip2 fileb
rahma@rahma-Lenovo:~/zipdir\$ ls
arc2.tar cppasswd etc.tar fileb.bz2 fileg.gz
rahma@rahma-Lenovo:~/zipdir\$ gunzip fileg.gz
rahma@rahma-Lenovo:~/zipdir\$ bunzip2 fileb.bz2
rahma@rahma-Lenovo:~/zipdir\$ ls
arc2.tar cppasswd etc.tar fileb file

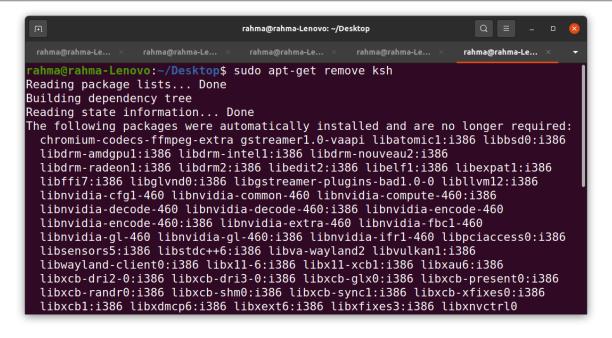
## Question 3:

**rahma@rahma-Lenovo:~\$** sudo find / -perm 777 -type d 2> /dev/null

## Question 4:

```
rahma@rahma-Lenovo: ~/Desktop
                   rahma@rahma-Le...
                                                       rahma@rahma-Le...
                                                                          rahma@rahma-Le...
ahma@rahma-Lenovo:~/Desktop$ sudo apt-get remove ncompress
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required: chromium-codecs-ffmpeg-extra gstreamer1.0-vaapi libatomic1:i386 libbsd0:i386
  libdrm-amdgpu1:i386 libdrm-intel1:i386 libdrm-nouveau2:i386
  libdrm-radeon1:i386 libdrm2:i386 libedit2:i386 libelf1:i386 libexpat1:i386
  libffi7:i386 libglvnd0:i386 libgstreamer-plugins-bad1.0-0 libllvm12:i386 libnvidia-cfg1-460 libnvidia-common-460 libnvidia-compute-460:i386
  libnvidia-decode-460 libnvidia-decode-460:i386 libnvidia-encode-460
  libnvidia-encode-460:i386 libnvidia-extra-460 libnvidia-fbc1-460
  libnvidia-gl-460 libnvidia-gl-460:i386 libnvidia-ifrl-460 libpciaccess0:i386
  libsensors5:i386 libstdc++6:i386 libva-wayland2 libvulkan1:i386
  libwayland-client0:i386 libx11-6:i386 libx11-xcb1:i386 libxau6:i386
  libxcb-dri2-0:i386 libxcb-dri3-0:i386 libxcb-glx0:i386 libxcb-present0:i386
  libxcb-randr0:i386 libxcb-shm0:i386 libxcb-sync1:i386 libxcb-xfixes0:i386
  libxcb1:i386 libxdmcp6:i386 libxext6:i386 libxfixes3:i386 libxnvctrl0
```

## sudo apt-get remove ncompress



sudo apt-get remove ksh

## Question 5:

#### VLC:

sudo apt install vlc

#### VsCode:

1- sudo apt install software-properties-common
apt-transport-https wget

2- wget -q

https://packages.microsoft.com/keys/microsoft.asc
-0- | sudo apt-key add -

3- sudo add-apt-repository "deb [arch=amd64]
https://packages.microsoft.com/repos/vscode
stable main"

4- sudo apt install code

#### Atom:

1- sudo apt install software-properties-common
apt-transport-https wget

2-wget -q

https://packagecloud.io/AtomEditor/atom/gpgkey -

O- | sudo apt-key add -

3- sudo add-apt-repository "deb [arch=amd64]

https://packagecloud.io/AtomEditor/atom/any/ any main"

4- sudo apt install atom

## Krita

- 1- sudo add-apt-repository ppa:kritalime/ppa
- 2- sudo apt install krita

## Google Chrome

1-wget https://dl.google.com/linux/direct/googlechrome-stable\_current\_amd64.deb

2-sudo apt install ./google-chromestable\_current\_amd64.deb



