Lab 5 | Handling files Answers to Lab

Question 1

```
cvfermin@CIS106VM
                           ~/Lab5
     $cat /etc/passwd
oot:x:0:0:root:/root:/bin/bash
laemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
oin:x:2:2:bin:/bin:/usr/sbin/nologin
ys:x:3:3:sys:/dev:/usr/sbin/nologin
ync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
nan:x:6:12:man:/var/cache/man:/usr/sbin/nologin
.p:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
nail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
ucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
    CVTermin@C15106
      $tac /etc/passwd
vboxadd:x:998:1::/var/run/vboxadd:/bin/false
 flatpak:x:126:134:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
cvfermin:x:1000:1000:Cristian V. Fermin,,,:/home/cvfermin:/bin/bash
gdm:x:125:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
gnome-initial-setup:x:124:65534::/run/gnome-initial-setup/:/hin/fals
  cvfermin@CIS106VM
     $cat -nE /etc/passwd
    1 root:x:0:0:root:/root:/bin/bash$
       daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin$
       bin:x:2:2:bin:/bin:/usr/sbin/nologin$
sys:x:3:3:sys:/dev:/usr/sbin/nologin$
    5 sync:x:4:65534:sync:/bin:/bin/sync$
       games:x:5:60:games:/usr/games:/usr/sbin/nologin$
       man:x:6:12:man:/var/cache/man:/usr/sbin/nologin$
       lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin$
    9 mail:x:8:8:mail:/var/mail:/usr/sbin/nologin$
       news:x:9:9:news:/var/spool/news:/usr/sbin/nologin$
   10
       uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin$
       proxy:x:13:13:proxy:/bin:/usr/sbin/nologin$
       www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin$
       backup:x:34:34:backup:/var/backups:/usr/sbin/nologin$
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin$
       irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin$
       gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin$
       nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin$
   cvfermin@CIS106VM
     $head -5 /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
   cvfermin@CIS106VM
     $tail -5 /etc/passwd
gdm:x:125:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
cvfermin:x:1000:1000:Cristian V. Fermin,,,:/home/cvfermin:/bin/bash
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
 flatpak:x:126:134:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin_
vboxadd:x:998:1::/var/run/vboxadd:/bin/false
   cvfermin@CIS106VM
```

Question 2

```
cvfermin@CIS106VM ]-[~/Lab5
     $cut -d ":" -f 1 /etc/passwd
root
daemon
bin
sys
sync
games
man
lρ
mail
news
uucp
ргоху
www-data
backup
   cvfermin@CIS106VM - ~/Lab5
     $tail -5 /etc/passwd | cut -d ":" -f 1
gdm
cvfermin
systemd-coredump
flatpak
vboxadd
   cvfermin@CIS106VM]-[~/Lab5
   cvtermin@CIS106VM |- | ~/Lab5
     $ cut -d ':' -s -f1,7 --output-delimiter=' = ' /etc/passwd
root = /bin/bash
daemon = /usr/sbin/nologin
bin = /usr/sbin/nologin
sys = /usr/sbin/nologin
sync = /bin/sync
games = /usr/sbin/nologin
man = /usr/sbin/nologin
lp = /usr/sbin/nologin
mail = /usr/sbin/nologin
news = /usr/sbin/nologin
uucp = /usr/sbin/nologin
proxy = /usr/sbin/nologin
www-data = /usr/sbin/nologin
backup = /usr/sbin/nologin
list = /usr/sbin/nologin
irc = /usr/sbin/nologin
gnats = /usr/sbin/nologin
nobody = /usr/sbin/nologin
systemd-network = /usr/sbin/nologin
systemd-resolve = /usr/sbin/nologin
```

systemd-timesync = /usr/sbin/nologin

messagebus = /usr/sbin/nologin
syslog = /usr/sbin/nologin
apt = /usr/sbin/nologin

```
cvfermin@CIS106VM]-[~/Lab5]
     $ cut -d ':' -f1,3 /etc/passwd | sort
apt:105
avahi:115
avahi-autoipd:109
backup:34
bin:2
colord:121
cups-pk-helper:113
cvfermin:1000
daemon:1
dnsmasq:112
flatpak:126
games:5
qdm:125
geoclue:122
gnats:41
gnome-initial-setup:124
hplip:119
irc:39
   cvfermin@CIS106VM
     $ cut -d ':' -f1,3 /etc/passwd | sort | tail -5
uucp:10
uuidd:107
vboxadd:998
whoopsie:120
www-data:33
   cvfermin@CIS106VM]-[~/Lab5]
```

Question 3

```
cvfermin@CIS106VM]—[~/Lab5]
$ wc -l /etc/passwd

48 /etc/passwd

[cvfermin@CIS106VM]—[~/Lab5]

1. 48 lines in the file

[cvfermin@CIS106VM]—[~/Lab5]

$ wc -m /etc/passwd

2895 /etc/passwd

[cvfermin@CIS106VM]—[~/Lab5]

2. 2895
```

3. 2 users

```
_[cvfermin@CIS106VM]=[~/Lab5]
____$ grep -n "/bin/bash" /etc/passwd
1:root:x:0:0:root:/root:/bin/bash
45:cvfermin:x:1000:1000:Cristian V. Fermin,,,:/home/cvfermin:/bin/bash
__[cvfermin@CIS106VM]=[~/Lab5]
____$ grep "/bin/bash" /etc/passwd | wc -l
2
__[cvfermin@CIS106VM]=[~/Lab5]
____$
```

Question 4

```
cvfermin@CIS106VM]=[~/Lab5]
    $ ip ad | grep 'inet'
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
    inet6 fe80::e5ea:c342:1c85:ba0f/64 scope link noprefixroute
    [cvfermin@CIS106VM]=[~/Lab5]
    $ ip ad |grep 'inet6' | tac |
    inet6 fe80::e5ea:c342:1c85:ba0f/64 scope link noprefixroute |
    inet6 fe80::e5ea:c342:1c85:ba0f/64 scope link noprefixroute |
    inet6 ::1/128 scope host |
    [cvfermin@CIS106VM]=[~/Lab5]
```

```
| labS.txt | sort > labS.txt |
```

\$ ip ad | grep -E '[[:digit:]]{1,3}\.[[:digit:]]{1,3}' | sort

```
inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3 inet 127.0.0.1/8 scope host lo
[cvfermin@CIS106VM]-[~/Lab5]
-- $
```