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Class: IT007.L21

OPERATING SYSTEM LAB 1'S REPORT

SUMMARY

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	•••		

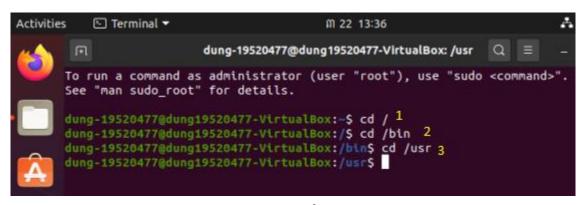
Self-scrores:

*Note: Export file to **PDF** and name the file by following format:

LAB X – <Student ID>.pdf

Section 1.5

1. Task name 1



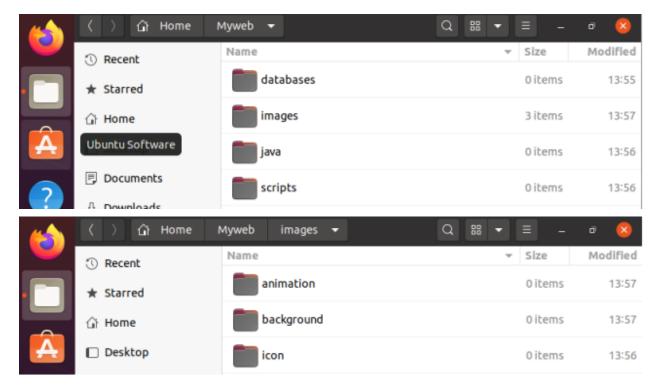
Thực hiện chuyển thư mục

- 1 chuyển về thư mục gốc.
- 2 chuyển đến thư mục /bin.
- 3 chuyển đến thư mục người dùng.

2. Task name 2

```
Try 'mkdir --help' for more information. /* tạo thư mục Myweb */
dung-19520477@dung19520477-VirtualBox:/home$ mkdir -p /home/dung-19520477/Myweb
dung-19520477@dung19520477-VirtualBox:/home$ mkdir -p /home/dung-19520477/Myweb
/images /* tạo thư mục images */
dung-19520477@dung19520477-VirtualBox:/home$ mkdir -p /home/dung-19520477/Myweb
/scripts /* tạo thư mục scripts */
dung-19520477@dung19520477-VirtualBox:/home$ mkdir -p /home/dung-19520477/Myweb
/java /* tạo thư mục java */
dung-19520477@dung19520477-VirtualBox:/home$ mkdir -p /home/dung-19520477/Myweb
/images/icon /* tạo thư mục icon */
dung-19520477@dung19520477-VirtualBox:/home$ mkdir -p /home/dung-19520477/Myweb
/images/background /* tạo thư mục background */
dung-19520477@dung19520477-VirtualBox:/home$ mkdir -p /home/dung-19520477/Myweb
/images/background /* tạo thư mục background */
dung-19520477@dung19520477-VirtualBox:/home$ mkdir -p /home/dung-19520477/Myweb
/images/animation /* tạo thư mục animation */
dung-19520477@dung19520477-VirtualBox:/home$
```

Cây thư mục



Hiển thị giao diện của cây thư mục đã tạo

3. Task name 3

```
dung-19520477@dung19520477-VirtualBox:~$ find . -name
dung-19520477@dung19520477-VirtualBox:~$ find . -name "*.class" /* không tìm được
                                                                 file .html và .class
dung-19520477@dung19520477-VirtualBox:~$ ls
                                                                  */
                      Pictures Templates
dung-19520477@dung19520477-VirtualBox:~$ cd Music
dung-19520477@dung19520477-VirtualBox:~/Music$ touch yeuamnhac.html anime237.cl
                                             /* tạo 2 file này trong thư mục Music */
dung-19520477@dung19520477-VirtualBox:~/Music$ ls
anime237.class yeuamnhac.html
dung-19520477@dung19520477-VirtualBox:~/Music$ cd ...
dung-19520477@dung19520477-VirtualBox:~$ find . -name "*.html"
./Music/yeuamnhac.html
                                                                 /* đã tìm thấy */
dung-19520477@dung19520477-VirtualBox:~$ find . -name "*.class"
./Music/anime237.class
```

Tạo và tìm file có phần mở rộng .html và .class

```
dung-19520477@dung19520477-VirtualBox:~$ cp ./Music/yeuamnhac.html /home/dung-19520477/Myweb dung-19520477@dung19520477-VirtualBox:~$ ls Myweb databases images java scripts yeuamnhac.html
```

Copy file "yeuamnhac.html" vào thư mục Myweb

```
dung-19520477@dung19520477-VirtualBox:-$ touch butterfly.html
dung-19520477@dung19520477-VirtualBox:-$ find . -name "*.html"
    ./butterfly.html
    ./Myweb/yeuamnhac.html
    ./Music/yeuamnhac.html
dung-19520477@dung19520477-VirtualBox:-$ cp ./butterfly.html /home/dung-1952047
7/Myweb
dung-19520477@dung19520477-VirtualBox:-$ ls Myweb
butterfly.html databases images java scripts yeuamnhac.html
```

Thực hiện tương tự các bước như trên đối với file "butterfly.html"

4. Task name 4

```
butterfly.html databases images java scripts yeuamnhac.html
dung-19520477@dung19520477-VirtualBox:~/Myweb$ mv butterfly.html /home/dung-195
20477/Myweb/java
dung-19520477@dung19520477-VirtualBox:~/Myweb$ mv yeuamnhac.html /home/dung-195
20477/Myweb/java
dung-19520477@dung19520477-VirtualBox:~/Myweb$ ls
databases images java scripts
dung-19520477@dung19520477-VirtualBox:~/Myweb$ cd java
dung-19520477@dung19520477-VirtualBox:~/Myweb/java$ ls
butterfly.html yeuamnhac.html
dung-19520477@dung19520477-VirtualBox:~/Myweb/java$
```

Di chuyển file "yeuamnhac.html" và "butterfly.html" trong thư mục Myweb→Myweb/java

5. Task name 5

```
dung-19520477@dung19520477-VirtualBox:/$ cd /home/dung-19520477/Myweb
dung-19520477@dung19520477-VirtualBox:-/Myweb$ rmdir scripts
dung-19520477@dung19520477-VirtualBox:-/Myweb$ ls
databases images java
dung-19520477@dung19520477-VirtualBox:-/Myweb$
```

Xóa thư mục Myweb/scripts

6. Task name 6

```
dung-19520477@dung19520477-VirtualBox:~/Myweb$ chmod 700 databases
```

Thiết lập quyền truy xuất cho Myweb/databases (chủ sở hữu có toàn quyền, những người dùng khác không có quyền gì trên nó)

```
dung-19520477@dung19520477-VirtualBox:/$ su -l - 19521219
Password:
su: warning: cannot change directory to /home/19521219: No such file or directo
ry
$ ls
```

```
$ cd databases
-sh: 11: cd: can't cd to databases
$ mkdir /home/dung-19520477/Myweb/databases/mydog
mkdir: cannot create directory '/home/dung-19520477/Myweb/databases/mydog': Per
mission denied
$ exit
dung-19520477@dung19520477-VirtualBox:/$ cd /home/dung-19520477/Myweb/databases
dung-19520477@dung19520477-VirtualBox:~/Myweb/databases$
```

Kiểm tra lệnh *chmod 700 databases* đã được thực thi hay không.

Khi đăng nhập bằng user 19521219 khác chủ sở hữu, không thể di chuyển vào thư mục databases cũng như không thể tạo một directory trong nó.

7. Task name 7

```
dung-19520477@dung19520477-VirtualBox:/$ sudo groupadd HDH [sudo] password for dung-19520477:
```

Tạo group HDH

```
dung-19520477@dung19520477-VirtualBox:/$ sudo useradd 19521219
dung-19520477@dung19520477-VirtualBox:/$ sudo usermod -a -G HDH 19521219
dung-19520477@dung19520477-VirtualBox:/$ sudo usermod -a -G HDH 19520600
usermod: user '19520600' does not exist
dung-19520477@dung19520477-VirtualBox:/$ sudo useradd 19520600
dung-19520477@dung19520477-VirtualBox:/$ sudo usermod -a -G HDH 19520600
dung-19520477@dung19520477-VirtualBox:/$ sudo passwd 19521219
New password:
Retype new password:
passwd: password updated successfully
dung-19520477@dung19520477-VirtualBox:/$ sudo passwd 19520600
New password:
Retype new password:
passwd: password updated successfully
dung-19520477@dung19520477-VirtualBox:/$ sudo useradd 19520367
dung-19520477@dung19520477-VirtualBox:/$ sudo usermod -a -G HDH 19520367
dung-19520477@dung19520477-VirtualBox:/$ sudo passwd 19520367
New password:
Retype new password:
passwd: password updated successfully
dung-19520477@dung19520477-VirtualBox:/$ sudo useradd 19520321
dung-19520477@dung19520477-VirtualBox:/$ sudo passwd 19520321
New password:
Retype new password:
passwd: password updated successfully
dung-19520477@dung19520477-VirtualBox:/$ sudo usermod -a -G HDH 19520321
```

Tạo các user 19521219, 19520600, 19520367, 19520321 nằm trong group HDH

```
dung-19520477@dung19520477-VirtualBox:/$ cat /etc/group
 root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,dung-19520477
 tty:x:5:
disk:x:6:
 lp:x:7:
mail:x:8:
news:x:9:
 uucp:x:10:
man:x:12:
proxy:x:13:
 kmem:x:15:
dialout:x:20:
 fax:x:21:
 voice:x:22:
cdrom:x:24:dung-19520477
floppy:x:25:
 tape:x:26:
 sudo:x:27:dung-19520477
 audio:x:29:pulse
dip:x:30:dung-19520477
www-data:x:33:
backup:x:34:
 operator:x:37:
 list:x:38:
 irc:x:39:
bluetooth:x:112:
ssl-cert:x:113:
uuidd:x:114:
tcpdump:x:115:
avahi-autoipd:x:116:
rtkit:x:117:
ssh:x:118:
netdev:x:119:
lpadmin:x:120:dung-19520477
avahi:x:121:
scanner:x:122:saned
saned:x:123:
nm-openvpn:x:124:
whoopsie:x:125:
colord:x:126:
geoclue:x:127:
pulse:x:128:
pulse-access:x:129:
gdm:x:130:
lxd:x:131:dung-19520477
dung-19520477:x:1000:
sambashare:x:132:dung-19520477
systemd-coredump:x:999:
HDH:x:1001:19521219,19520600,19520367,19520321
19521219:x:1002:
19520600:x:1003:
19520367:x:1004:
19520321:x:1005:
dung-19520477@dung19520477-VirtualBox:/$
```

Kiểm tra group HDH và các user đã được tạo hay chưa (liệt kê tất cả các group)

```
dung-19520477@dung19520477-VirtualBox:/$ su -l - 19521219
Password:
su: warning: cannot change directory to /home/19521219: No such file or directo
гу
S ls
bin
            lib
                   libx32
       dev
                               mnt
                                     root
                                           snap
                                                     sys var
            lib32
boot
       etc
                   lost+found opt
                                     run
                                           STV
                                                     tmp
cdrom home lib64 media
                               proc sbin
                                           swapfile usr
$ cd /
$ cd /home
$ ls
dung-19520477
$ cd/home/dung-19520477
-sh: 5: cd/home/dung-19520477: not found
$ cd /home/dung-19520477
S ls
Desktop
                               Public
                                          Videos
          Downloads Myweb
Documents Music
                     Pictures Templates
$ ls Myweb
databases images java
```

```
$ cd databases
-sh: 11: cd: can't cd to databases
$ mkdir /home/dung-19520477/Myweb/databases/mydog
mkdir: cannot create directory '/home/dung-19520477/Myweb/databases/mydog': Per
mission denied
$ exit
dung-19520477@dung19520477-VirtualBox:/$ cd /home/dung-19520477/Myweb/databases
dung-19520477@dung19520477-VirtualBox:~/Myweb/databases$
```

Login và thực thi một số lệnh bằng user khác owner (chủ sở hữu)