

LAB 01 – Command line in Linux

Course: *OPERATING SYSTEM*

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Exercise 1:

1. Go to user directory with the command: `cd ~`
2. Create a directory naming by your name, for example: `minhlong`, `kykhai`, ...
3. In your directory, create a subdirectory naming by your subject: `OS_N`, then in the `OS_N` directory continuously create two subdirectories with the name: `OS` and `N`.
4. In `OS` directory, you create the follows.
 - a. A subdirectory naming `HW`
 - b. A file naming `test1` with the content as “`He dieu hanh`”
5. In `N` directory, you create the following directories and files:
 - a. `HW` directory
 - b. `Assgn` directory
 - c. An empty `test5` file
6. Copy `test1` file to `N` directory with the name is `test4`
7. Delete `test1` file in `OS` directory
8. Add more content into `test5` file
9. Back to root directory

Exercise 2:

Explain the meaning of the following commands in Linux, and try to run them in your console.

1. `dpkg`
2. `free`
3. `hostname`
4. `ifconfig`
5. `sudo`
6. `cat /proc/cpuinfo`
7. `free -m`
8. `fdisk -l`

Exercise 3:

1. Display your current working directory:
2. Change to new directory `/tmp`:

3. Go back to HOME directory:
4. List detail of your directory content (included hidden files):
5. Do list and redirect the result of the list command on content */usr* directory to *usr.txt* file:
.....
6. Sort on data input is the *usr.txt* file in the reverse order:
7. show content of */usr/bin* directory and pause on each screen:
8. Search recursive on the */etc* directory for all files in which contain 'log' word:
9. What is command to count on number of lines in */etc/profile* file:
10. How many number of lines in the */etc/profile* file:

Answer above questions & capture screen of you comand-line executed!

Exercise 4:

- Create a file named *user.txt*. Then, you add *n* usernames (each in one line, $n \geq 5$).
- Display the content of file *user.txt*
- Display list of *n* sorted usernames in your file and store that sorted list into a new file named *suser.txt*

Count the number of users in your file and display it.

Exercise 5:

Install Ubuntu OS into your computer. You could install dual OS or install in a virtual machine such as VMWare.

Install Unikey to type Vietnamese

Submission:

You should capture the result screen of each exercise and include in your completed document file. Create the directory with a name like **<class>-<name>-<roll number>-Lab-01**,
e.g. **SE0905-QuangTV-SE03456-Lab01**
Copy all your exercise files to that folder.
Compress the folder to .zip/.rar file (with the same name) and upload to CMS.