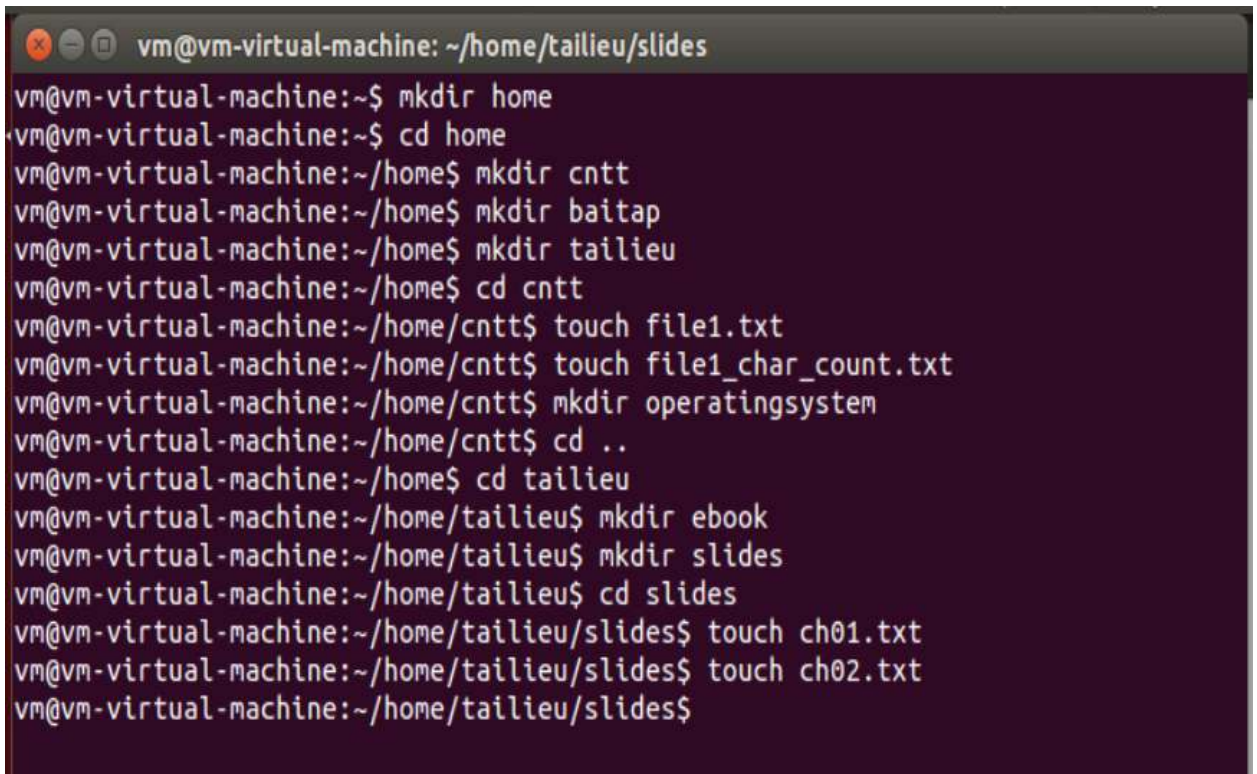


Bài 1:



```
vm@vm-virtual-machine: ~/home/tailieu/slides
vm@vm-virtual-machine:~$ mkdir home
vm@vm-virtual-machine:~$ cd home
vm@vm-virtual-machine:~/home$ mkdir cntt
vm@vm-virtual-machine:~/home$ mkdir baitap
vm@vm-virtual-machine:~/home$ mkdir tailieu
vm@vm-virtual-machine:~/home$ cd cntt
vm@vm-virtual-machine:~/home/cntt$ touch file1.txt
vm@vm-virtual-machine:~/home/cntt$ touch file1_char_count.txt
vm@vm-virtual-machine:~/home/cntt$ mkdir operatingsystem
vm@vm-virtual-machine:~/home/cntt$ cd ..
vm@vm-virtual-machine:~/home$ cd tailieu
vm@vm-virtual-machine:~/home/tailieu$ mkdir ebook
vm@vm-virtual-machine:~/home/tailieu$ mkdir slides
vm@vm-virtual-machine:~/home/tailieu$ cd slides
vm@vm-virtual-machine:~/home/tailieu/slides$ touch ch01.txt
vm@vm-virtual-machine:~/home/tailieu/slides$ touch ch02.txt
vm@vm-virtual-machine:~/home/tailieu/slides$
```

Bài 2:

```
vm@vm-virtual-machine: ~/home/tailieu/slides
vm@vm-virtual-machine:~$ cd home
vm@vm-virtual-machine:~/home$ ls
baitap  cntt  tailieu
vm@vm-virtual-machine:~/home$ cd baitap
vm@vm-virtual-machine:~/home/baitap$ ls
vm@vm-virtual-machine:~/home/baitap$ cd ..
vm@vm-virtual-machine:~/home$ cd cntt
vm@vm-virtual-machine:~/home/cntt$ ls
file1_char_count.txt  file1.txt  operatingsystem
vm@vm-virtual-machine:~/home/cntt$ cd ..
vm@vm-virtual-machine:~/home$ cd tailieu
vm@vm-virtual-machine:~/home/tailieu$ ls
ebook  slides
vm@vm-virtual-machine:~/home/tailieu$ cd ebook
vm@vm-virtual-machine:~/home/tailieu/ebook$ ls
vm@vm-virtual-machine:~/home/tailieu/ebook$ cd ..
vm@vm-virtual-machine:~/home/tailieu$ cd slides
vm@vm-virtual-machine:~/home/tailieu/slides$ ls
ch01.txt  ch02.txt
vm@vm-virtual-machine:~/home/tailieu/slides$
```

Bài 3:

```
vm@vm-virtual-machine: ~  
vm@vm-virtual-machine:~$ ls --help  
Usage: ls [OPTION]... [FILE]...  
List information about the FILES (the current directory by default).  
Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.  
  
Mandatory arguments to long options are mandatory for short options too.  
-a, --all                do not ignore entries starting with .  
-A, --almost-all        do not list implied . and ..  
    --author              with -l, print the author of each file  
-b, --escape              print C-style escapes for nongraphic characters  
    --block-size=SIZE     scale sizes by SIZE before printing them. E.g.,  
                           '--block-size=M' prints sizes in units of  
                           1,048,576 bytes. See SIZE format below.  
-B, --ignore-backups      do not list implied entries ending with ~  
-c                        with -lt: sort by, and show, ctime (time of last  
                           modification of file status information)  
                           with -l: show ctime and sort by name  
                           otherwise: sort by ctime, newest first  
-C                        list entries by columns  
    --color[=WHEN]        colorize the output. WHEN defaults to 'always'  
                           or can be 'never' or 'auto'. More info below  
-d, --directory           list directory entries instead of contents,  
                           and do not dereference symbolic links  
-D, --dired               generate output designed for Emacs' dired mode  
-f                        do not sort, enable -aU, disable -ls --color  
-F, --classify            append indicator (one of */=>@|) to entries  
    --file-type            likewise, except do not append '*'  
    --format=WORD          across -x, commas -m, horizontal -x, long -l,  
                           single-column -1, verbose -l, vertical -C  
    --full-time            like -l --time-style=full-iso
```

cd path Chuyển đến thư mục được chỉ định bởi path.

Cd Đi về thư mục gốc

cd ~ Chuyển về thư mục nhà.

cd - Chuyển về thư mục trước của bạn.

cd .. Chuyển về thư mục cha của thư mục hiện hành.

Bài 4a)



```

vm@vm-virtual-machine:~$ cd home
vm@vm-virtual-machine:~/home$ ls
baitap cntt tailieu
vm@vm-virtual-machine:~/home$ cd cntt
vm@vm-virtual-machine:~/home/cntt$ ls
file1_char_count.txt file1.txt operatingsystem
vm@vm-virtual-machine:~/home/cntt$ echo 'hello' >file1.txt
vm@vm-virtual-machine:~/home/cntt$ cat file1.txt
hello
vm@vm-virtual-machine:~/home/cntt$

```

4b)

```

vm@vm-virtual-machine: ~/home/cntt
vm@vm-virtual-machine:~$ cd home
vm@vm-virtual-machine:~/home$ cd cntt
vm@vm-virtual-machine:~/home/cntt$ ls
file1_char_count.txt file1_char_count.txt~ file1.txt operatingsystem
vm@vm-virtual-machine:~/home/cntt$ wc -m file1.txt > file1_char_count.txt
vm@vm-virtual-machine:~/home/cntt$ cat file1_char_count.txt
6 file1.txt
vm@vm-virtual-machine:~/home/cntt$

```

Bài 5:

```

vm@vm-virtual-machine:~$ cd home
vm@vm-virtual-machine:~/home$ ls -a
. .. baitap cntt tailieu
vm@vm-virtual-machine:~/home$

```

Bài 6:

```

vm@vm-virtual-machine: ~/home/tailieu/ebook
vm@vm-virtual-machine:~$ mv /home/vm/home/tailieu/slides/ch01.txt /home/vm/home/
tailieu/ebook/
vm@vm-virtual-machine:~$ cd home
vm@vm-virtual-machine:~/home$ cd tailieu
vm@vm-virtual-machine:~/home/tailieu$ cd ebook
vm@vm-virtual-machine:~/home/tailieu/ebook$ ls
ch01.txt
vm@vm-virtual-machine:~/home/tailieu/ebook$

```

Bài 7:

```
vm@vm-virtual-machine:~/home$ ls -s
total 12
4 baitap 4 cntt 4 tailieu
vm@vm-virtual-machine:~/home$
```

Bài 9:

```
vm@vm-virtual-machine: ~/home
vm@vm-virtual-machine:~/home$ ls
baitap cntt tailieu
vm@vm-virtual-machine:~/home$ pwd
/home/vm/home
vm@vm-virtual-machine:~/home$
```

Bài 10:

```
vm@vm-virtual-machine: ~
vm@vm-virtual-machine:~$ ls -ls /boot
total 69960
1220 -rw-r--r-- 1 root root 1245914 Th01 19 2019 abi-4.4.0-142-generic
192 -rw-r--r-- 1 root root 193964 Th01 19 2019 config-4.4.0-142-generic
192 -rw-r--r-- 1 root root 194246 Th05 9 2019 config-4.4.0-148-generic
4 drwxr-xr-x 5 root root 4096 Th03 4 15:38 grub
24208 -rw-r--r-- 1 root root 24786338 Th03 4 15:38 initrd.img-4.4.0-142-generic
24216 -rw-r--r-- 1 root root 24793752 Th03 4 15:38 initrd.img-4.4.0-148-generic
176 -rw-r--r-- 1 root root 176500 Th03 12 2014 memtest86+.bin
176 -rw-r--r-- 1 root root 178176 Th03 12 2014 memtest86+.elf
176 -rw-r--r-- 1 root root 178680 Th03 12 2014 memtest86+_multiboot.bin
4 -rw-r--r-- 1 root root 1030 Th01 19 2019 retpoline-4.4.0-142-generic
3056 -rw----- 1 root root 3126531 Th01 19 2019 System.map-4.4.0-142-generic
3056 -rw----- 1 root root 3128806 Th05 9 2019 System.map-4.4.0-148-generic
6636 -rw-r--r-- 1 root root 6793152 Th03 5 2019 vmlinuz-4.4.0-142-generic
6648 -rw----- 1 root root 6804064 Th05 9 2019 vmlinuz-4.4.0-148-generic
vm@vm-virtual-machine:~$
```

Bài 11:

```
vm@vm-virtual-machine: ~  
vm@vm-virtual-machine:~$ ls -sh /boot  
total 69M  
1,2M abi-4.4.0-142-generic          176K memtest86+.elf  
192K config-4.4.0-142-generic       176K memtest86+_multiboot.bin  
192K config-4.4.0-148-generic       4,0K retpoline-4.4.0-142-generic  
4,0K grub                          3,0M System.map-4.4.0-142-generic  
24M initrd.img-4.4.0-142-generic    3,0M System.map-4.4.0-148-generic  
24M initrd.img-4.4.0-148-generic    6,5M vmlinuz-4.4.0-142-generic  
176K memtest86+.bin                6,5M vmlinuz-4.4.0-148-generic  
vm@vm-virtual-machine:~$
```

Bài 12:

```
vm@vm-virtual-machine: ~  
vm@vm-virtual-machine:~$ df -hT /bin  
Filesystem      Type  Size  Used Avail Use% Mounted on  
/dev/sda1       ext4  18G   4,3G   13G   26% /  
vm@vm-virtual-machine:~$
```

Bài 13:

```
vm@vm-virtual-machine: ~  
vm@vm-virtual-machine:~$ df  
Filesystem      1K-blocks    Used Available Use% Mounted on  
udev            1018332         4   1018328   1% /dev  
tmpfs           206188      1064   205124   1% /run  
/dev/sda1       18447100 4454828 13032172  26% /  
none              4            0         4   0% /sys/fs/cgroup  
none             5120         0        5120   0% /run/lock  
none            1030932        80   1030852   1% /run/shm  
none            102400         48   102352   1% /run/user  
/dev/sr1         57244      57244         0 100% /media/vm/VMware Tools  
vm@vm-virtual-machine:~$
```