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THỰC HÀNH NGUYÊN LÍ HỆ ĐIỀU HÀNH

(Buổi 2)

Bài 1:

- chmod 755 fs
- sh fs

bao@bao-VirtualBox: ~/Documents

File Edit View Search Terminal Help

```
bao@bao-VirtualBox:~/Documents$ chmod 755 fs
bao@bao-VirtualBox:~/Documents$ sh fs
```

bao@bao-VirtualBox: ~/Documents

File Edit View Search Terminal Help

```
This is my first script
bao@bao-VirtualBox:~/Documents$
```

- echo \$BASH
- echo \$PWD

```
bao@bao-VirtualBox: ~/Documents
File Edit View Search Terminal Help
bao@bao-VirtualBox:~/Documents$ echo $BASH
/bin/bash
bao@bao-VirtualBox:~/Documents$ echo $PWD
/home/bao/Documents
bao@bao-VirtualBox:~/Documents$
```

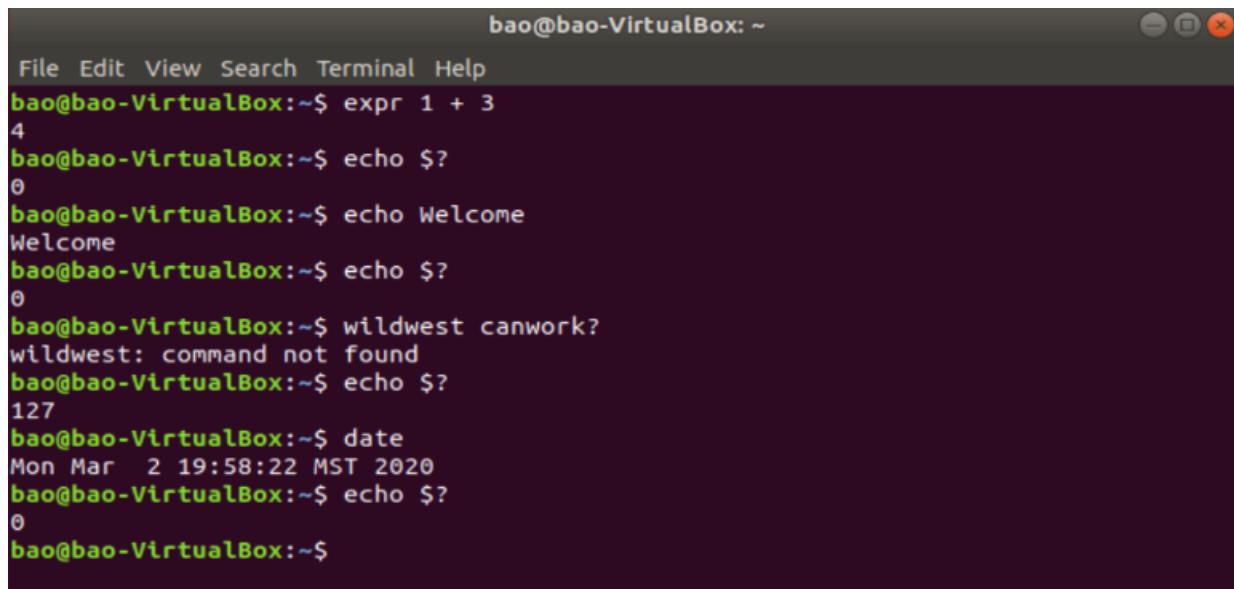
- sh fs

```
es  Terminal ▾
Open  ↗
Fs
-/Documents
Save  Mon 19:38
myname=Vitek
myos=TroubleOS
myno=5
echo "My name is $myname"
echo "My OS is $myos"
echo "My number is $myno, can you see this number"
bao@bao-VirtualBox: ~/Documents
File Edit View Search Terminal Help
bao@bao-VirtualBox:~/Documents$ sh fs
My name is Vitek
My OS is TroubleOS
My number is 5, can you see this number
bao@bao-VirtualBox:~/Documents$
```

- echo -e "\tDai hoc Can Tho \n\tKhoa Cong Nghe Thong Tin"

```
bao@bao-VirtualBox: ~
File Edit View Search Terminal Help
bao@bao-VirtualBox:~$ echo -e "\tDai hoc Can Tho \n\tKhoa Cong Nghe Thong tin"
        Dai hoc Can Tho
        Khoa Cong Nghe Thong tin
bao@bao-VirtualBox:~$ echo "Tong cua 3 va 6 la `expr 3 + 6`"
Tong cua 3 va 6 la 9
bao@bao-VirtualBox:~$
```

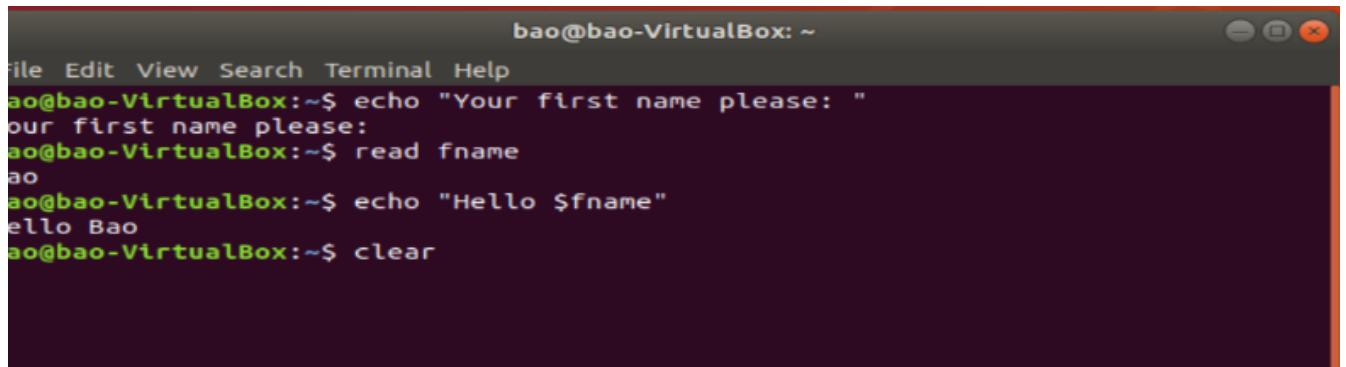
- expr 1 + 3
- echo \$?
- echo Welcome
- wildest canwork
- echo \$?
- date
- echo \$?



bao@bao-VirtualBox: ~

```
File Edit View Search Terminal Help
bao@bao-VirtualBox:~$ expr 1 + 3
4
bao@bao-VirtualBox:~$ echo $?
0
bao@bao-VirtualBox:~$ echo Welcome
Welcome
bao@bao-VirtualBox:~$ echo $?
0
bao@bao-VirtualBox:~$ wildwest canwork?
wildwest: command not found
bao@bao-VirtualBox:~$ echo $?
127
bao@bao-VirtualBox:~$ date
Mon Mar  2 19:58:22 MST 2020
bao@bao-VirtualBox:~$ echo $?
0
bao@bao-VirtualBox:~$
```

- echo "Your first name please"
- read fname
- echo "Hello \$fname"



bao@bao-VirtualBox: ~

```
File Edit View Search Terminal Help
bao@bao-VirtualBox:~$ echo "Your first name please: "
Your first name please:
bao@bao-VirtualBox:~$ read fname
ao
bao@bao-VirtualBox:~$ echo "Hello $fname"
Hello Bao
bao@bao-VirtualBox:~$ clear
```

- echo "Today is "; date

```
bao@bao-VirtualBox: ~
File Edit View Search Terminal Help
bao@bao-VirtualBox:~$ echo "Today is "; date
Today is
Mon Mar  2 20:12:56 MST 2020
bao@bao-VirtualBox:~$
```

- sh fs aa bb

The terminal window shows the contents of a file named 'fs' located in the '/Documents' directory. The file contains the following script:

```
echo "Total numbers of command line arguments are $#"
echo "$0 is script name"
echo "$1 is first argument"
echo "$2 is first argument"
echo "All of them are :$* or $@"
```

When run, the command 'sh fs aa bb' outputs the following:

```
bao@bao-VirtualBox: ~/Documents
File Edit View Search Terminal Help
bao@bao-VirtualBox:~/Documents$ sh fs aa bb
Total numbers of command line arguments are 2
fs is script name
aa is first argument
bb is first argument
All of them are :aa bb or aa bb
bao@bao-VirtualBox:~/Documents$
```

Bài 2:

- sh fs

The terminal window shows the contents of a file named 'fs' located in the '/Documents' directory. The file contains the following script:

```
echo "Today is "; date
echo "Hello $USER"
echo "Your current working directory: $PWD"
echo "Your home directory: $HOME"
echo "Press any key to continue"
read finish
```

```
bao@bao-VirtualBox: ~/Documents
File Edit View Search Terminal Help
bao@bao-VirtualBox:~/Documents$ sh fs
Today is
Mon Mar 2 21:41:36 MST 2020
Hello bao
Your current working directory: /home/bao/Documents
Your home directory: /home/bao
Press any key to continue
```

Bài 3:

- sh fs 6 5

```
Open + fs
~/Documents
echo "Tham so ban da tuyen vao la 2 so: $1 va $2"
echo "Tong x + y: `expr $1 + $2`"
echo "Hieu x - y: `expr $1 - $2`"
echo "Hieu x - y: `expr $1 \* $2`"
echo "Thuong x / y: `expr $1 / $2`"
echo "So du x % y: `expr $1 % $2`"
```

```
bao@bao-VirtualBox: ~/Documents
File Edit View Search Terminal Help
bao@bao-VirtualBox:~/Documents$ sh fs 6 5
Tham so ban da tuyen vao la 2 so: 6 va 5
Tong x + y: 11
Hieu x - y: 1
Hieu x - y: 30
Thuong x / y: 1
So du x % y: 1
bao@bao-VirtualBox:~/Documents$ 
```

Bài 4:

- sh taothumuc

The screenshot shows a terminal window titled "taothumuc" with the command "sh taothumuc" entered. The script prompts for a directory name, reads it into \$fname, and attempts to create a directory named \$fname. If the directory already exists, it prints an error message. The terminal output shows two runs of the script, both failing to create a directory named "new" because it already exists.

```
echo "Nhap ten thu muc"
read fname
mkdir $fname
if [ $? = 1 ]; then
    echo "Khong the tao thu muc"
fi
```

```
bao@bao-VirtualBox: ~
File Edit View Search Terminal Help
bao@bao-VirtualBox:~$ sh taothumuc
Nhap ten thu muc
new
bao@bao-VirtualBox:~$ sh taothumuc
Nhap ten thu muc
new
mkdir: cannot create directory 'new': File exists
Khong the tao thu muc
bao@bao-VirtualBox:~$
```

Bài 5:

The screenshot shows a terminal window titled "thuchien" with the command "sh thuchien" entered. This script takes two arguments, \$1 and \$2, and creates a directory named \$2 inside the directory \$1. The terminal output shows the creation of a directory named "thumucmoi" inside the "thuchien" directory.

```
``$1 $2``
```

```
bao@bao-VirtualBox: ~/Documents
File Edit View Search Terminal Help
bao@bao-VirtualBox:~/Documents$ ls
aa fs thuchien
bao@bao-VirtualBox:~/Documents$ sh thuchien mkdir thumucmoi
bao@bao-VirtualBox:~/Documents$ ls
aa fs thuchien thumucmoi
bao@bao-VirtualBox:~/Documents$ 
```

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