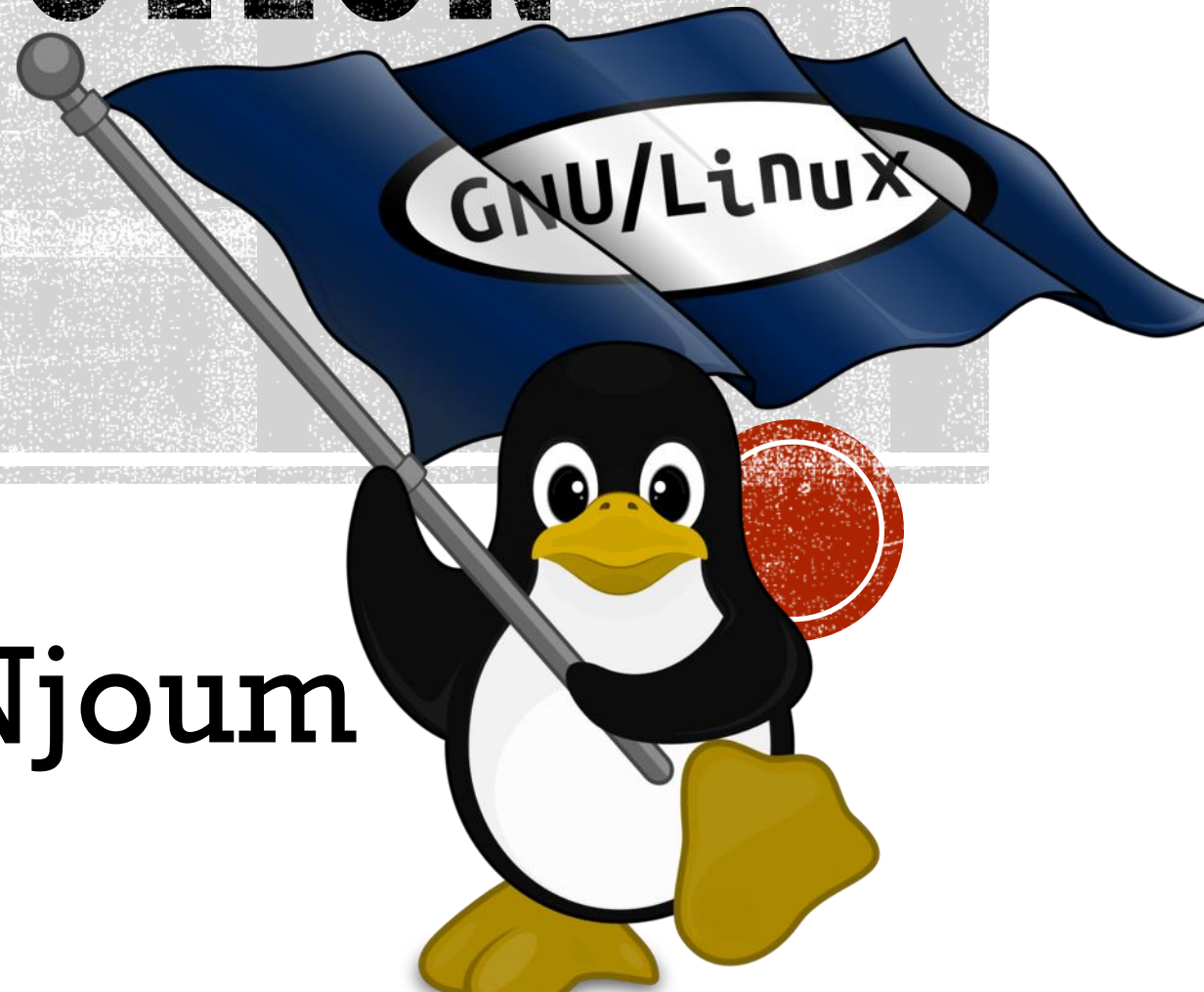


LAB9. SHELL SCRIPTS (I)

INTRODUCTION

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Objectives

After completing this lab, the student should be able to:

- Create and execute simple shell scripts.
- Use positional parameters and shifting to pass command line arguments to scripts.



CREATE STUDENTS FILE(USING VI)

Example 1:

```
vi myfirst
```

```
echo this is my first Linux script
```

```
echo I like it
```

```
echo bye
```

```
:wq (save and quit)
```

```
chmod +x myfirst
```

```
PATH=$PATH:.. OR .bash_profile
```

Typing its name on the command line as follows:

```
myfirst
```

What was the result of running the script?



EXECUTE THE SCRIPTS:

Ex2. vi greetings

```
echo What is your name  
read name  
echo hello $name  
:wq
```

```
chmod +x greetings  
greetings
```

*What do you think is the purpose of the **read command**?*



<http://Lain-Luscious.deviantart.com>



EX3:

- ***vi delete***

```
echo Enter file name:
```

```
read filename
```

```
rm $filename
```

```
echo File $filename has been  
deleted
```

```
:wq !
```



QUESTION: WRITE SCRIPT TO COPY FILE FROM SOURCE TO DESTINATION ?

copy

Enter source file name:

one

Enter destination file name:

two

File one is copied to file two

```
echo Enter source file name:
read one
echo Enter destination file name:
read two
cp $one $two
echo File $one has been copied to $two
```



EX4.

```
■ vi params
echo $1
echo $3 $2
echo $#
echo $0
echo $5
echo $*
:wq
```



```
■ params one two 3 four 5 6 bye
```

What was the output?

- \$1:** First Passed parameters
- \$3:** Third Passed parameters
- \$*:** all parameters
- \$#:** number of parameters
- \$0:** the file name of the current script

```
one
3 two
7
./params
5
One two 3 four 5 6 bye
```



TRY TO MAKE CONFIGURATION TO PERVIOUS FILES

rewrite both the delete and copy scripts above to run as follows:

*delete **file1***

***file1** has been deleted*

```
rm $1  
echo file $1 has been deleted
```

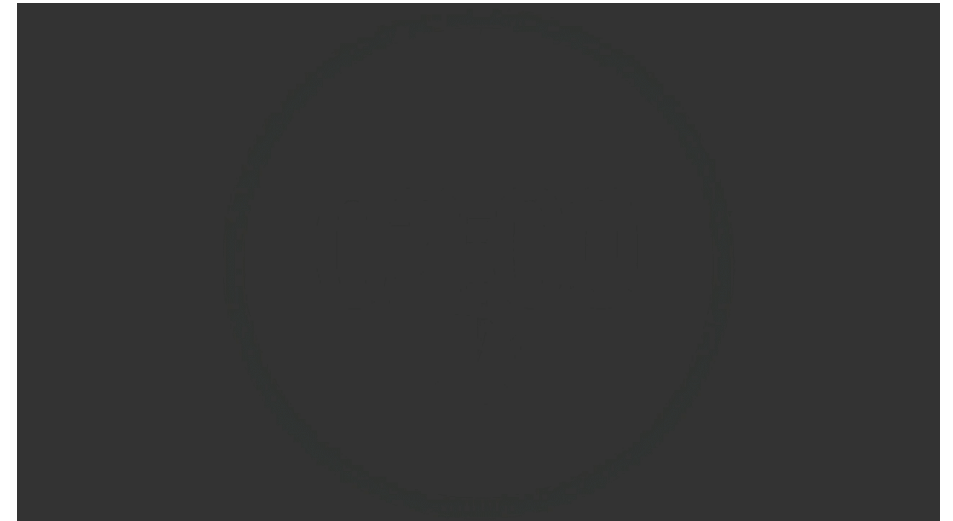
```
cp $1 $2  
echo File $1 has been copied to $2
```



QUESTION (3 POINT)

- Write a script called whoisuser that takes the login name of a user as a parameter and then uses the /etc/passwd file to get and print the full name of that user as follows:

whoisuser u1122334
u1122334 = Ahmad Hamdan



```
echo $1=$(grep $1 /etc/passwd |cut -d : -f5 |tr \_ ' ')
```



SHIFTING PARAMETERS

- *vi params*

echo \$1

shift 2

echo \$3 \$2

echo \$#

shift

echo \$0

shift 3

echo \$1

*echo \$**

:wq

one

5 4

9

./params

seven

seven 8 9 ten bye

params one two three 4 5 6 seven 8 9 ten bye

*Which parameter is not effected by the shift
command? \$0*



COMMENTS

Lines that start with (#) are interpreted as comments except in one case where shells have (!) followed by the name of a shell as the first line of a script.

- **Example:**

If your script starts with the line:

#!/bin/bash

Then the script is meant to be executed using the ***/bin/bash*** shell.



Check out the following system scripts:

more /etc/rc.sysinit

more /etc/rc.local

What is the first line in those files (scripts)?

What is the difference between the first line and the few lines that come after it?



QUIZ TIME!



PUZZLE QUIZ GAME IN CLASS

Directions:

1. Quiz is practical (at your machine in lab).
2. It's open book or notes, internet not allowed.
3. True run commands are only accepted.
4. Points are: **2 points or 3 points**
6. Time expired within **3** minutes, not extension allowed.
7. 1st, 2nd students whom complete the task will get full mark, others will loose marks (-1,-2,-3,...etc.)



QUESTION 1:

(2 points) Write a function that takes a triple filename as an argument and adds execute permission to the file for the user and the group.



QUESTION 2:

- (**5 points**) Write a Bourne shell script that takes a login name as its argument and display the number of terminal with user is logged on to in a LAN environment.

whatisterminal u1122334

u1122334 terminal number is 24



QUESTION 3:

- (5 points) Write a shell script that displays the names of all directory of your home directory (not files or hidden directory) in descending order



QUESTION 4:

(*5 points*) Write a Bourne shell script **phonenumber username** that's print an home phone number for that user



WELCOME!

