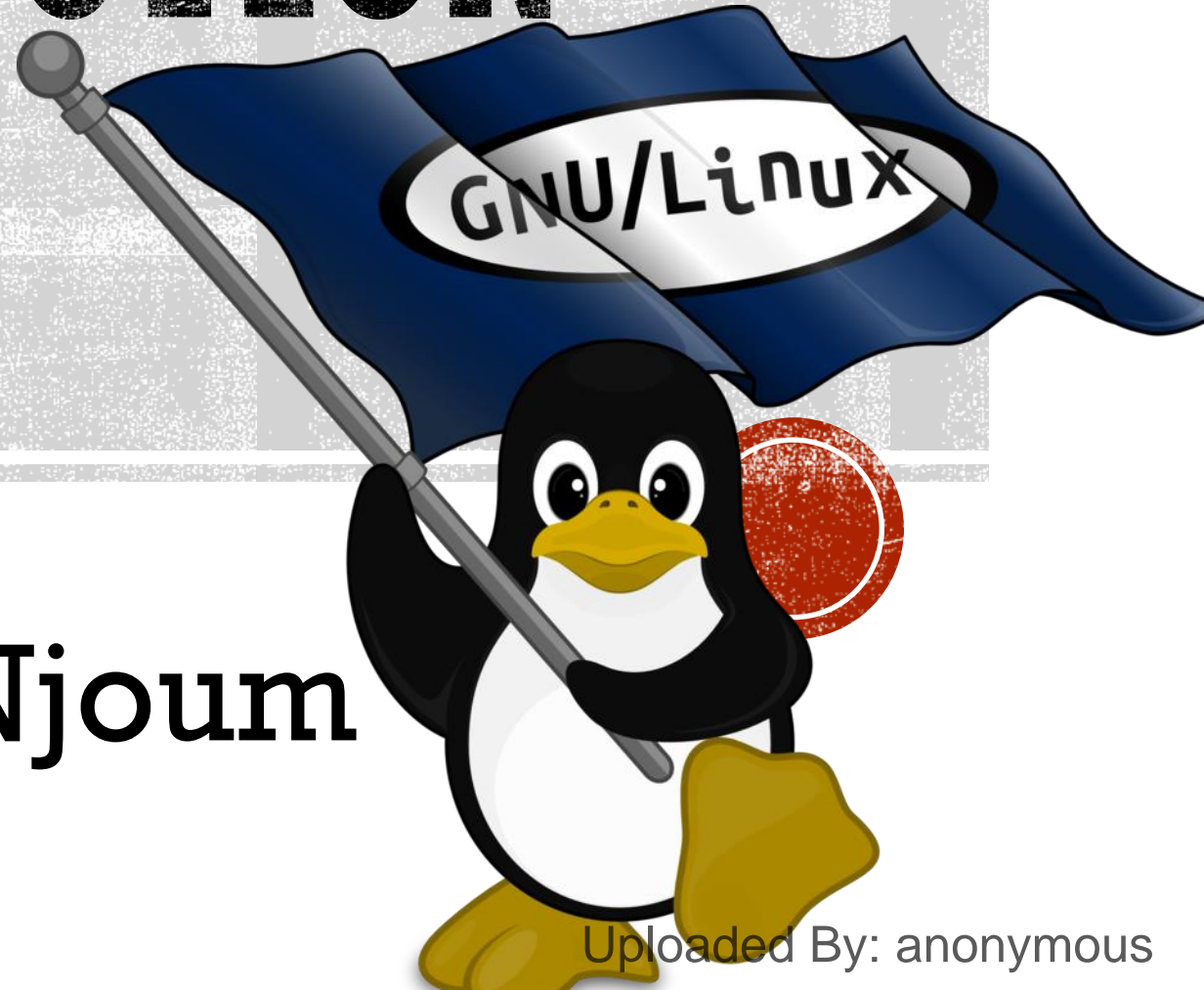


# LAB9. SHELL SCRIPTS (I)

## 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
```

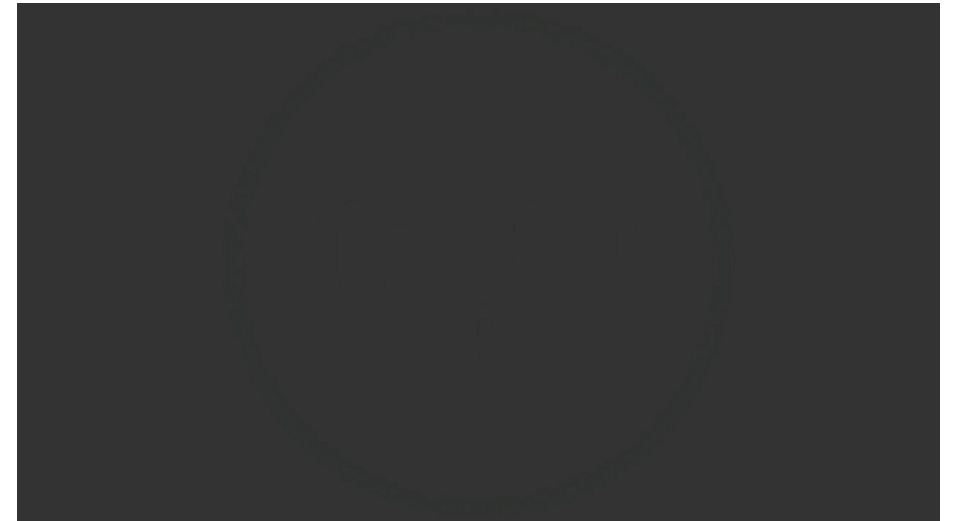




# QUESTION ( 3 POINT)

- 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. 1<sup>st</sup>, 2<sup>nd</sup> 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!