OLD DOMINION UNIVERSITY

CYSE 270 LINUX SYSTEM FOR CYBERSECURITY

Assignment #8 Shell Scripting

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CYSE 270 Assignment #8 Shell Scripting

Part I– Check your file system (30 points)

Please write shell scripts to complete the following tasks and submit the screenshot for script and its output on the blackboard.

Write a shell script that performs the following tasks:

1. Open vi editor with any file name, for example, vi lab8.sh

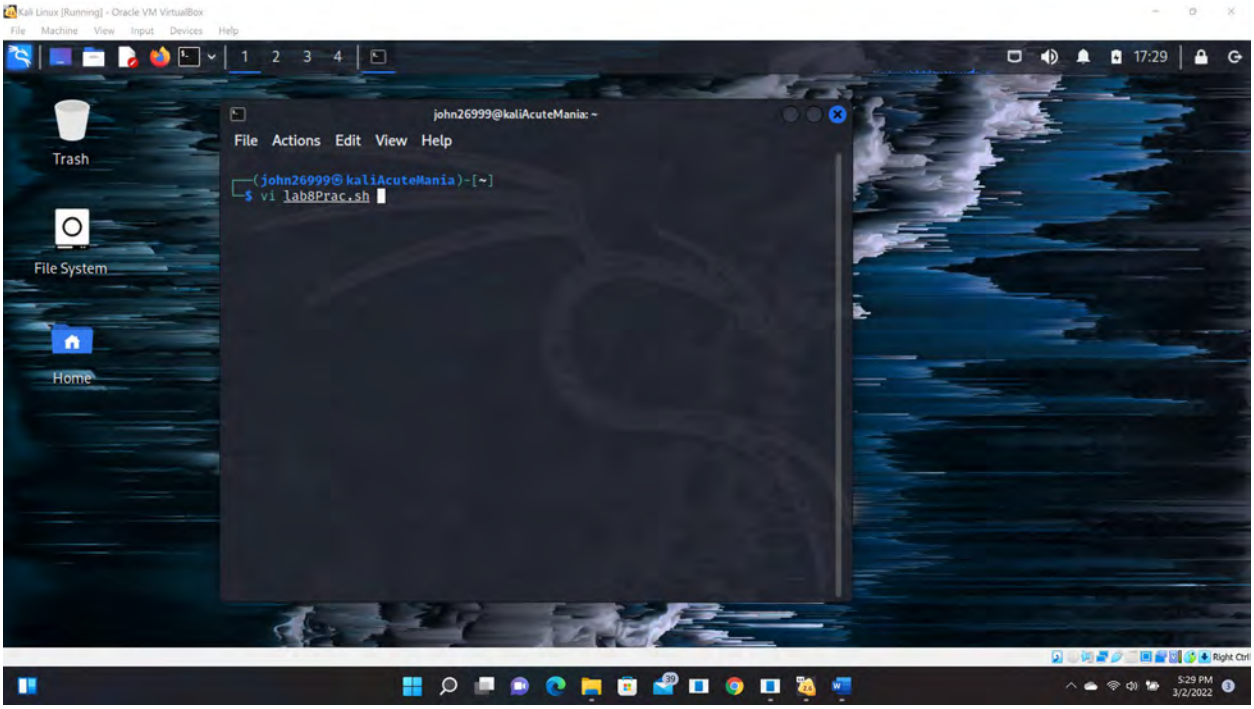


Figure 1 Screenshots of JWILS082 Computer screen for Step 1.

Above is the screen shot using the commands “vi lab8prac.sh” which opens up the vi editor so that you can place the BASH commands in the document. “vi” is the command to openup the vi editor. “lab8prac.sh” is the name of the file you want the vi editor to open or create (if not already created) and open.

CYSE 270 Assignment #8 Shell Scripting

2. Write a script to take Two inputs from the user, using command line arguments, as first name and surname such as-Harry and Potter, as shown in the diagram below.

3. Save your file and exit the editor.

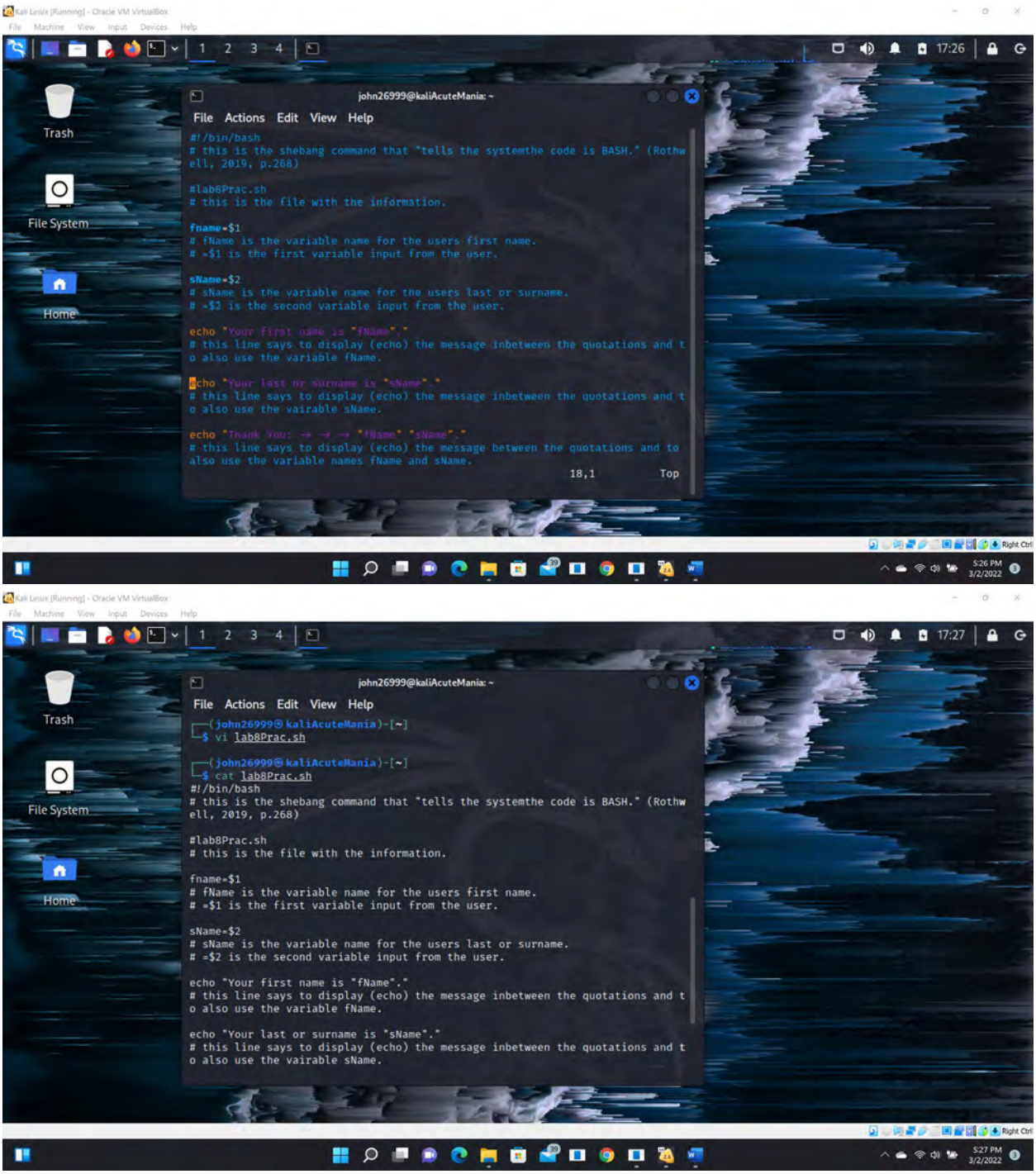


Figure 2 Screenshots of JWILS082 Computer screen for Step 2 and 3.

CYSE 270 Assignment #8 Shell Scripting

Above is the screen shot of the BASH commands used in the file “lab8prac.sh”. All the other comments that explain the code and the reasons why I am using it are on the screen shot and below if the screenshot is too small.

I also did the command “cat lab8Prac.sh” to show that the file is saved with the shell script.

```
#!/bin/bash
# this is the shebang command that "tells the system to execute the code as
BASH." (Rothwell, 2019, p.268).

#lab8Prac.sh
# this is the file with the information

fName=$1
# fName is the variable name for the users first name
# =$1 is the first variable input from the user

sName=$2
# sName is the variable name for the users last or surname
# =$2 is the second variable input from the user

echo "Your first name is "$1""
#this line says to display (echo) the message inbetween the quotations and to
use the variable fName

echo "Your last (or surname) name is "$2""
#this line says to display (echo) the message inbetween the quotations and to
use the variable sName

echo "Thank You -> -> -> "$1" "$2""
#this line says to display (echo) the message inbetween the quotations and to
use the variables fName and sName

echo "End of line"
#this line says to display (echo) the message inbetween the quotations

echo "Famous line from the movie Tron"
#this line says to display (echo) the message inbetween the quotations

#References
#
#Rothwell, W. (2019). Linux essentials for cybersecurity lab manual.
#     Pearson It Certification.
```

CYSE 270 Assignment #8 Shell Scripting

4. Change the permission for the script, using the following command:
sudo chmod a+x lab8.sh

a

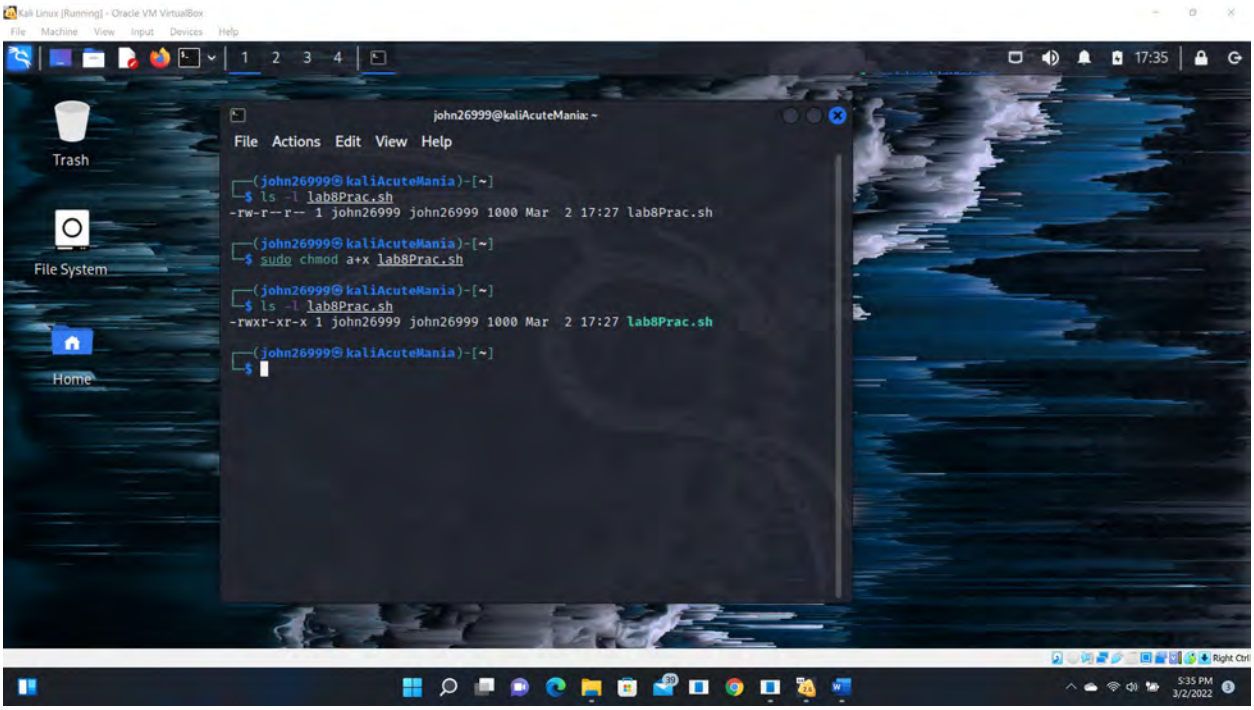


Figure 3 Screenshots of JWILS082 Computer screen for Step 4.

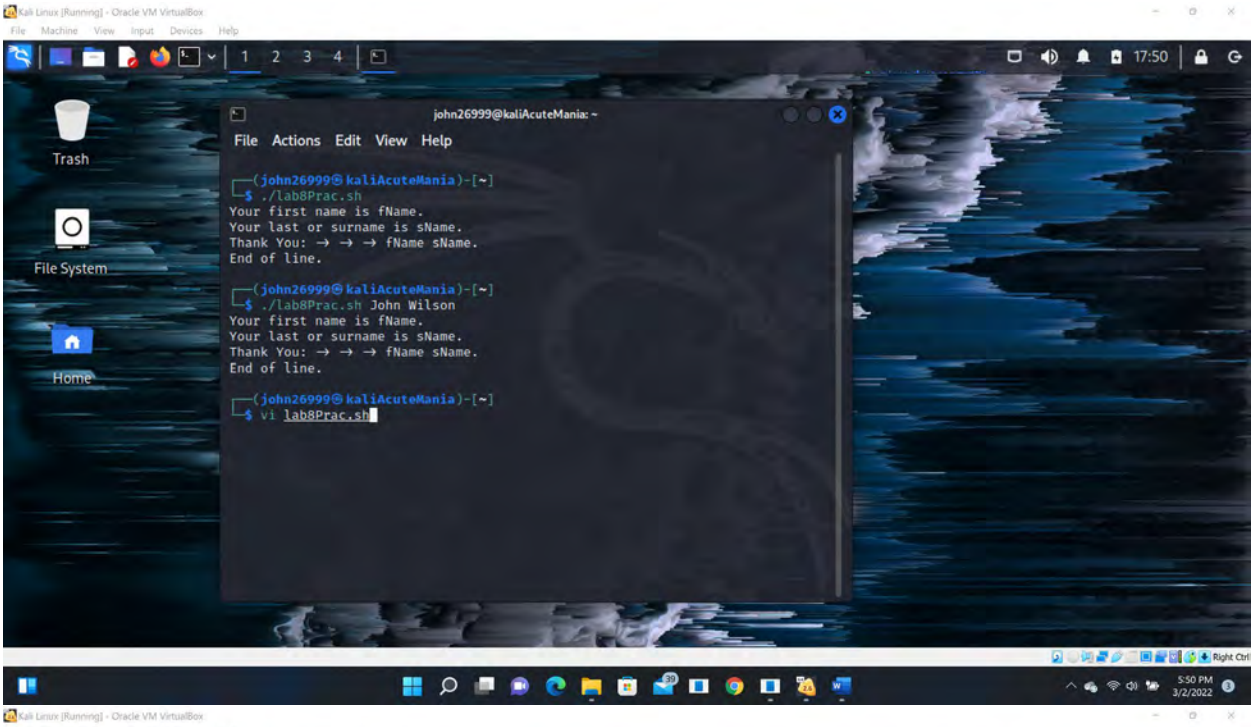
Above is the screen shot used the commands “ls -l lab8Prac.sh” that shows the current permissions for the file lab8Prac.sh. “ls” is the command that lists the files. “-l” is the command that says to show all the file information. And lab8Prac.sh is the name of the file.

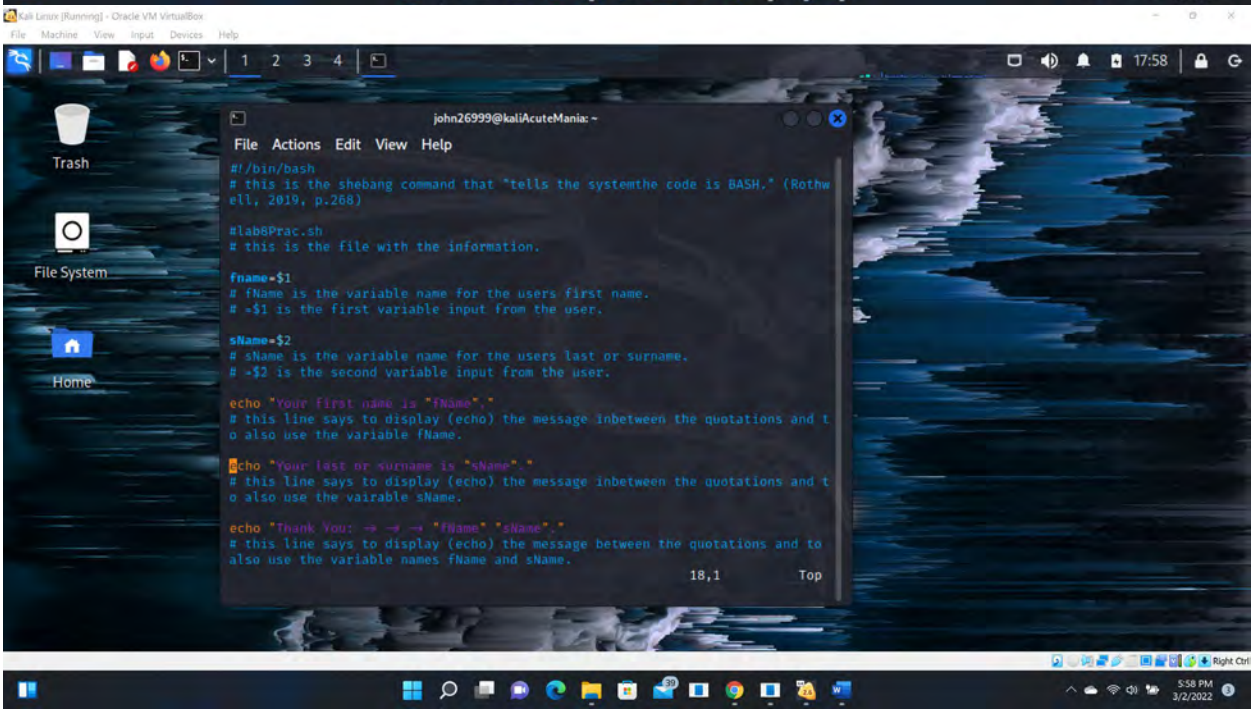
I also using the commands “sudo chmod a+x lab8Prac.sh” that updates the permissons to the file so that the BASH code can be executed.

Then I checked the file by using the command “ls -l labPrac.sh” ot validate the permissions were updated.

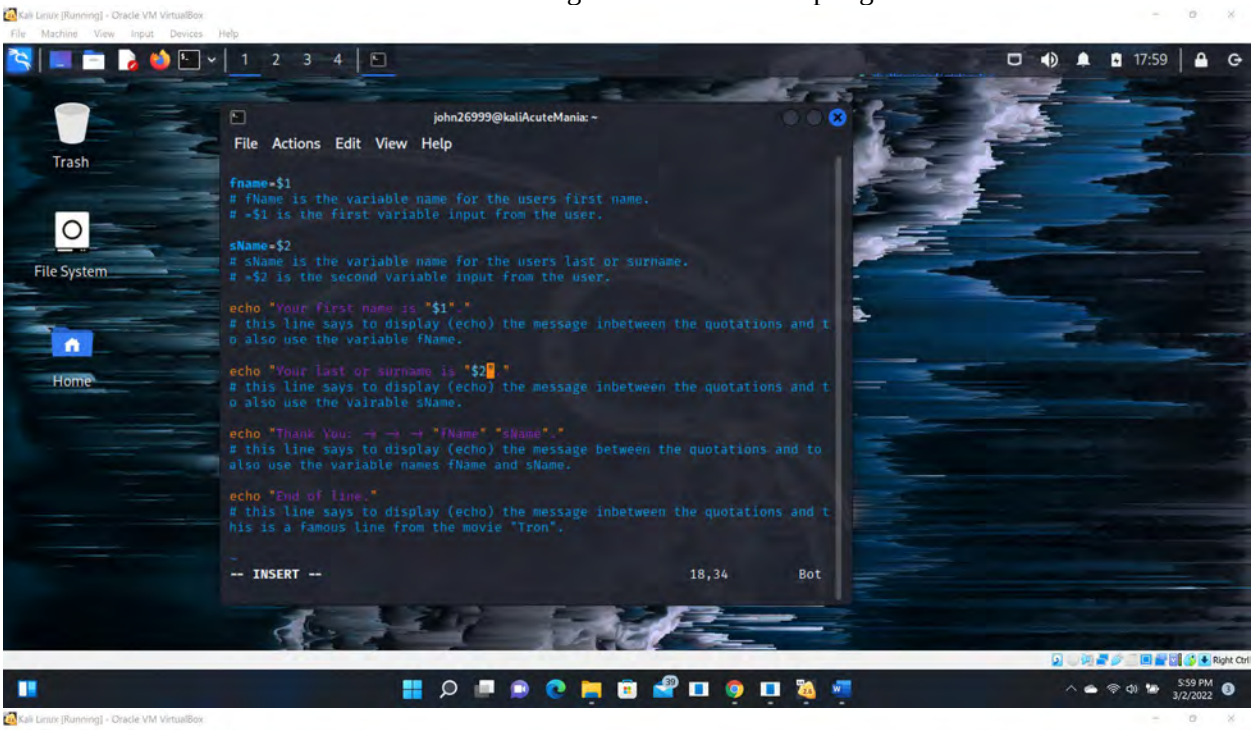
CYSE 270 Assignment #8 Shell Scripting

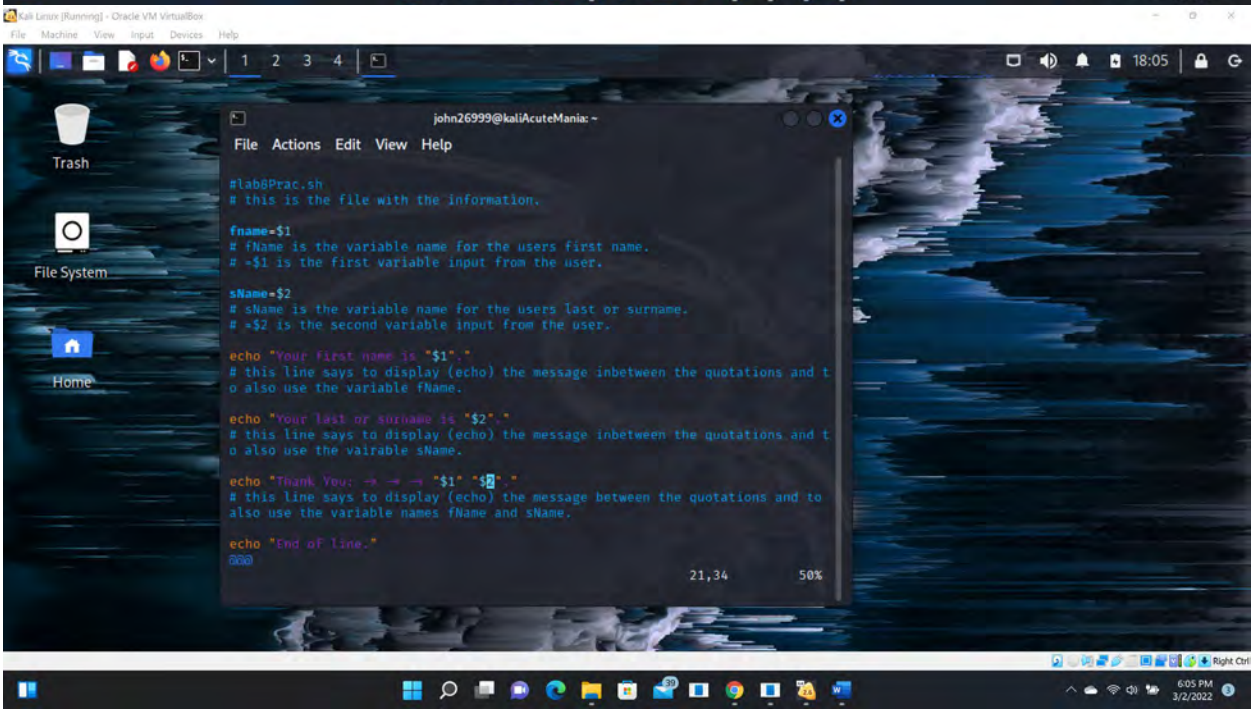
5. Execute the script by typing the command shown in this screenshot here.



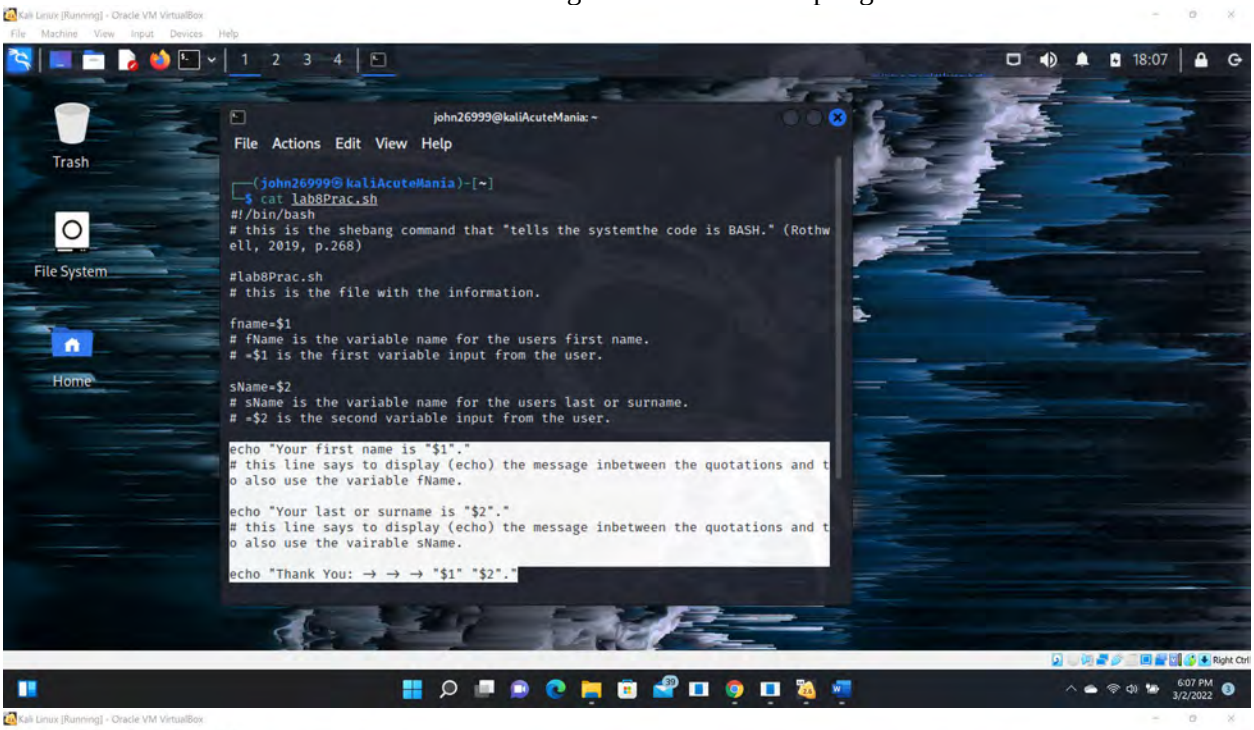


CYSE 270 Assignment #8 Shell Scripting





CYSE 270 Assignment #8 Shell Scripting



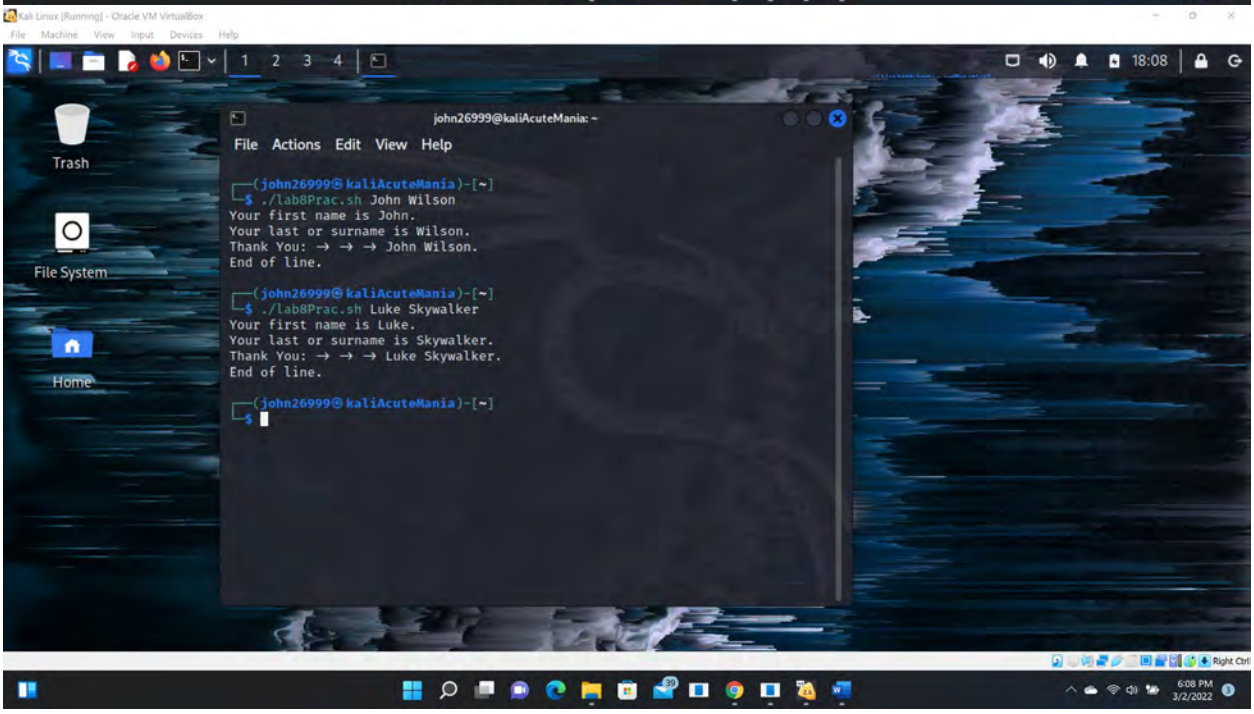


Figure 5 Screenshots of JWILS082 Computer screen for Step 5.

Above is the screen shot showing that I executed the command "./lab8Prac.sh" to execute the BASH code. And as you xan see ti forgot to add the variables. So I did this on the second line and it did not show the correct variables because I made a mistake and called the incorrect variables in the code. SO I have to back an d tweak it. As you should see in the next screen shot.

On the second screen shot I used the command "vi lab8Prac.sh" to open the file lab8Prac.sh in the vi editor so that I can fix my mistake.

As you can see forom the third shot that my mistake was the I should have called “$1” instead of the variable “fName”. The second mistake was similar to the first mistake; I have to use the variable “$2” instead of the variable “sName”.

In the last set of frames I show the mistakes and then the chages made, I save the file, then use the commad “cat lab8Prac.sh” to veriy the information took the changes made, and then validate the code using the command “./lab8Prac.sh” to illustrate the code works as expected with the changes.

References

Rothwell, W. (2019, p.268). Linux essentials for cybersecurity lab manual. Pearson It Certification.

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3/14/22

CYSE 270 Assignment #8 Shell Scripting