Bangladesh University of Business & Technology

Course Title: Operating System Lab

Course Code: CSE-310

Lab Report On: Introduction to Shell Scripting

Lab Report NO: 02

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OBJECTIVE:

In this lab, we are going to learn and implement the shell scripting.

DESCRIPTION:

Shell: A UNIX Shell is a program or a command line interpreter that interprets the user commands which are either entered by the user directly or which can be read from a file and then pass them to the operating system for processing. It is important to note that Shall scripts are interpreted and not compiled, as the computer system interprets them and there is not any need to compile Shell Scripts in order of execution.

Bash: Bash is the shell or command language interpreter. It is widely available on various operating systems and is a default command interpreter on most GNU/Linux systems. The name is an acronym for the 'Bourne-Again Shell'.

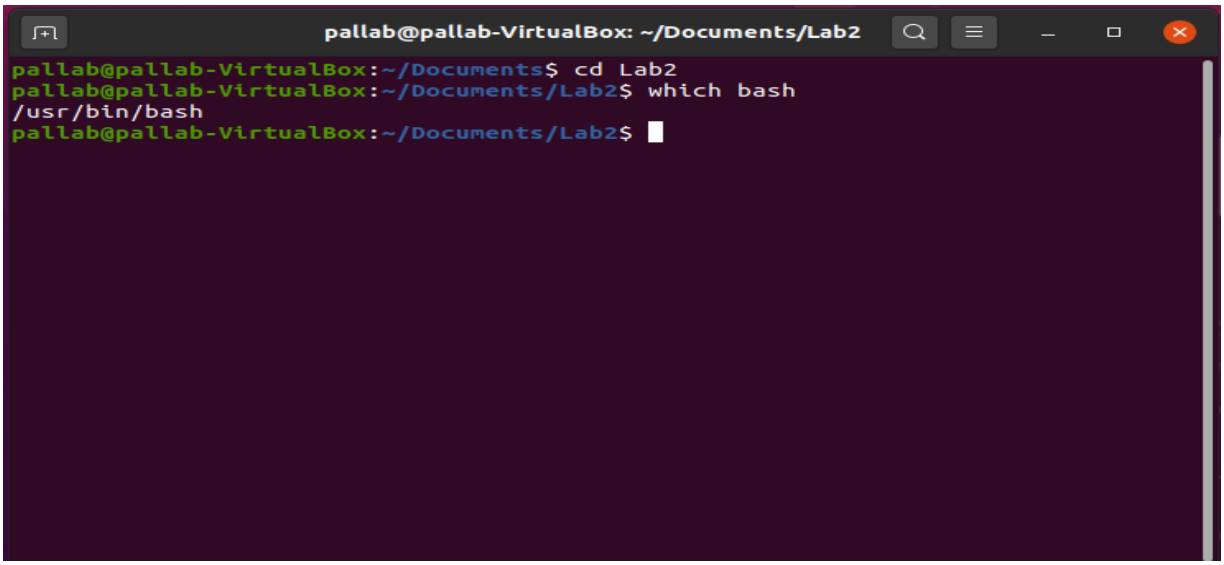
Bash is a command line interpreter that typically runs in a text window where user can interpret commands to carry out various actions. The combination of these commands as a series within a file is known as a Shell Script. Bash can read and execute the commands from a Shell Script.

Source Code and Output:

Bash Location:

Input: which bash

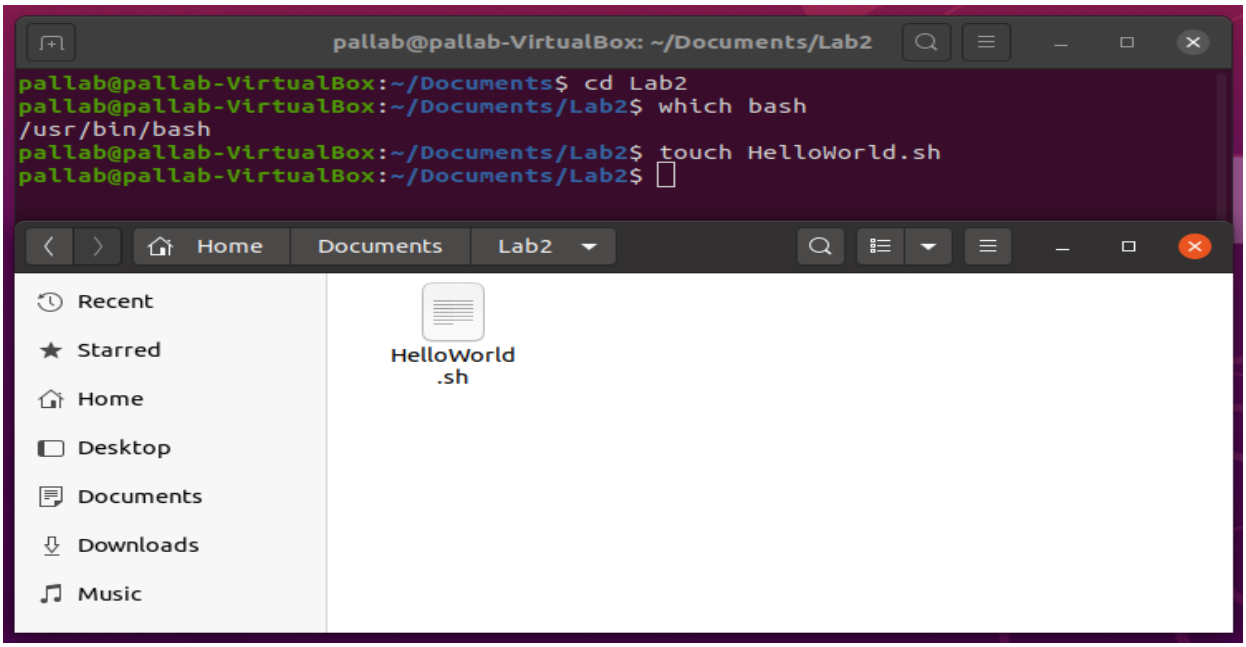
Output:



Creating a Shell Script file:

Input: touch HelloWorld.sh

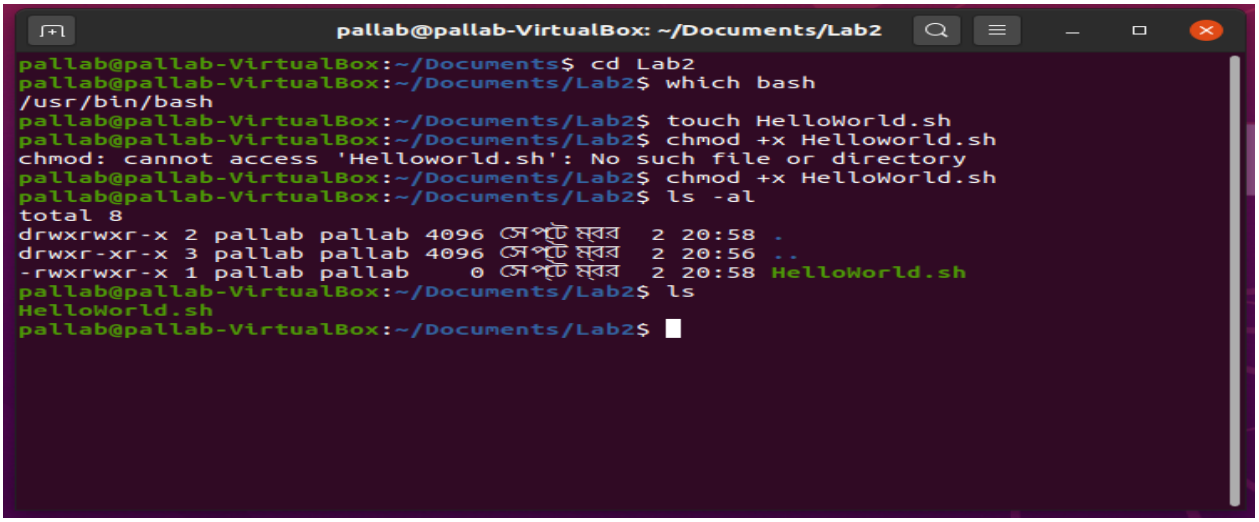
Output:



Change the access permissions of file system objects:

Input: chmod +x HelloWorld.sh

Output:



Run Script and Variable Declaration:

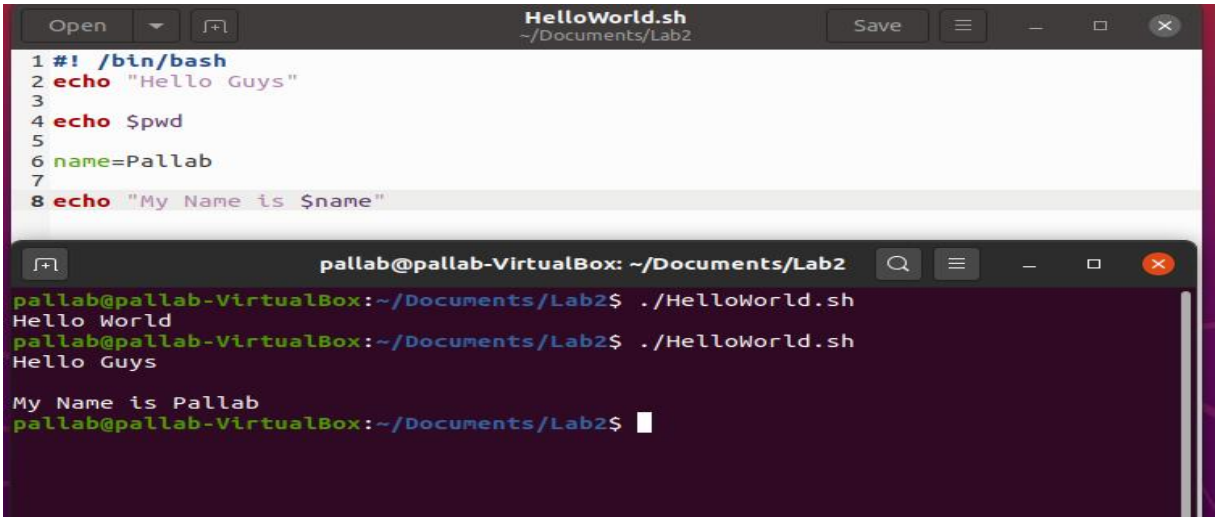
Input: echo “Hello Guys”

echo $pwd name=Pallab

echo “My Name is $name”

./HelloWorld.sh

Output:



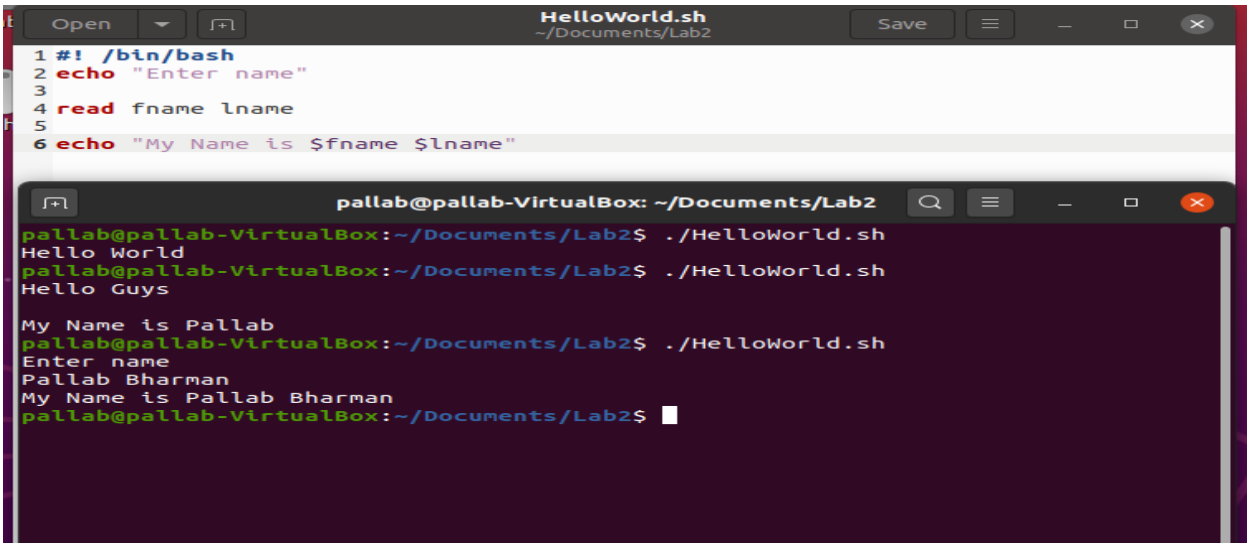
Take User Input:

Input: echo "Enter name"

read fname lname echo

“My Name is $fname $lname”

Output:



Array:

Input: echo "Enter name"

#read -a name

#echo "My Name is ${name[0]} ${name[1]}"

Output:

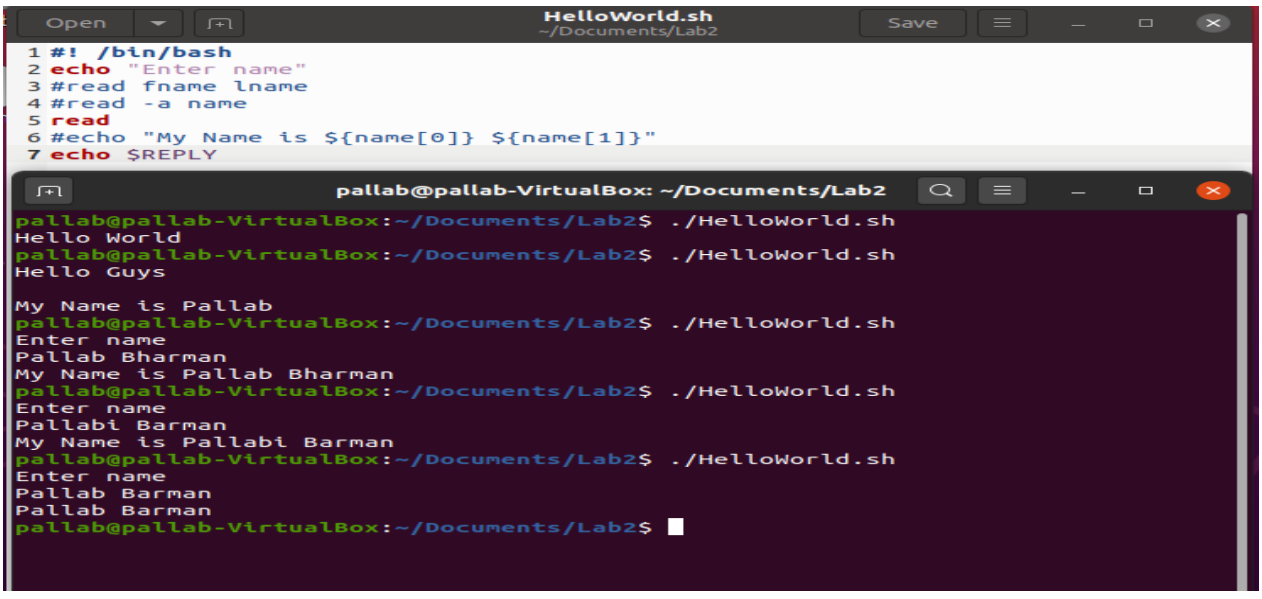
Showing Output using REPLY

Input: echo "Enter name"

read

echo $REPLY

Output:



If Else for Integer: Input:

price=200

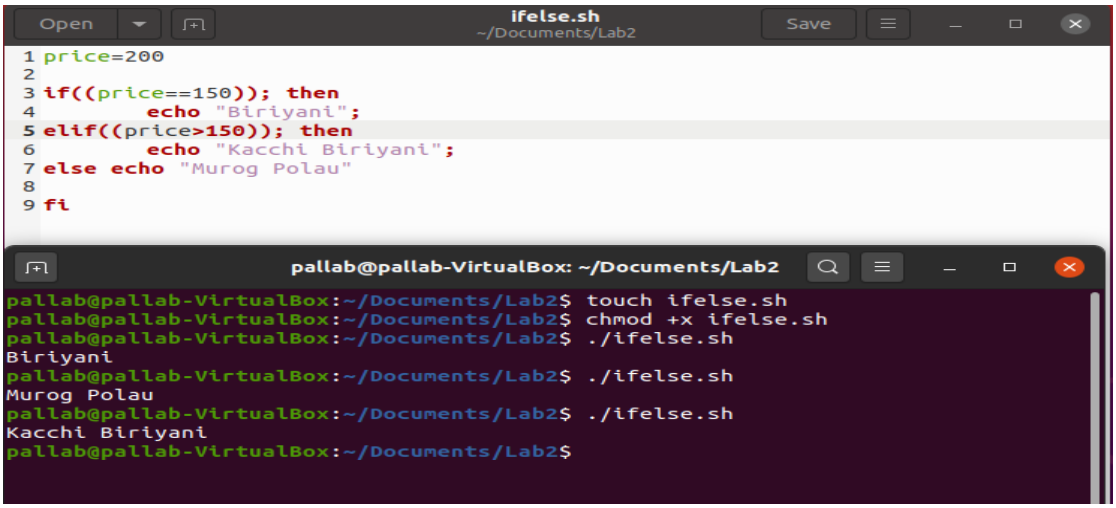
if((price==150)); then

echo "Biriyani";

elif((price>150)); then

```
 echo "Kacchi Biriyani";
 else echo "Morog Polau"
Fl
```

Output:



If Else for String:

Input:

```
 word="P"

if [[ $word == "P" ]]; then

echo "It is P"

elif [[ $word < "P" ]]; then
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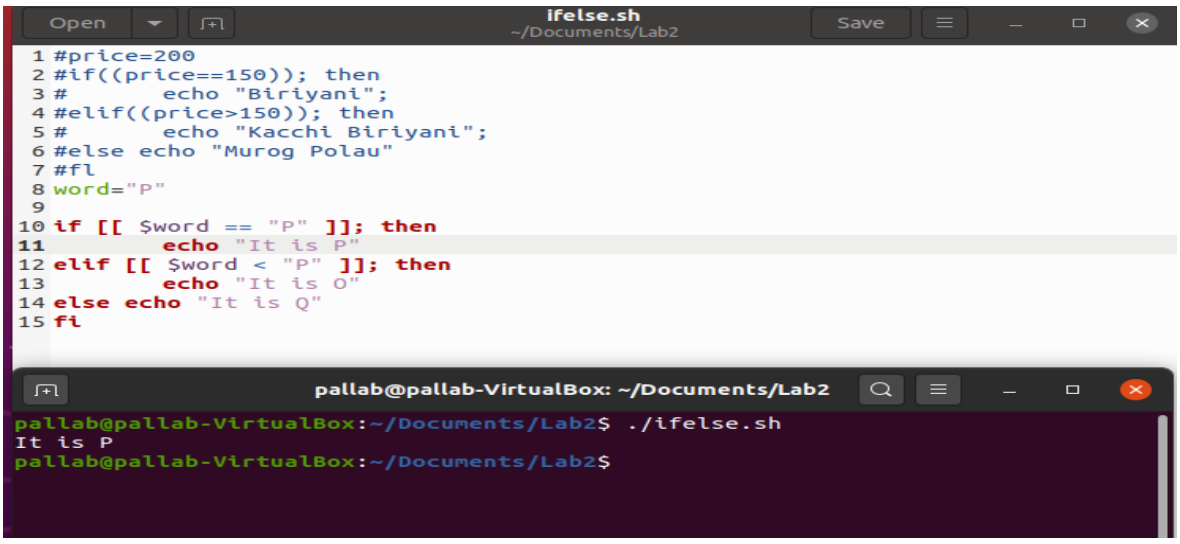
```
 echo "It is O"
 else echo "It is Q"
Fi
```

Output:



Discussion:

1. In this lab, we learned and implemented shell scripts.
2. We have used terminal and text editor to implement the codes.
3. No error was found in the action.