

## ™ Assignment for Linux skills

### Format: Lab Session

Time: 90 mins

#### Instruction:

1. Complete the assignment and also upload the solutions in your Git repo

2. Take screenshot of the solution and paste it in word document

1. Create a new directory called "practice" in your home directory.

**mkdir practice**

2. Inside the "practice" directory, create a new file called "file1.txt" and add some text to it.

**cd practice**

**touch file1.txt**

**nano file1.txt (gedit file1.txt) (vim file1.txt)**

3. Copy "file1.txt" to a new file called "file2.txt" in the same directory.

**cp file1.txt file2.txt**

4. Move "file2.txt" to a new directory called "backup" that is located inside the "practice" directory.

**mkdir backup**

**mv file2.txt backup**

5. Create a new directory called "scripts" inside the "practice" directory.

**mkdir scripts**

6. Create a new file called "myscript.sh" inside the "scripts" directory.

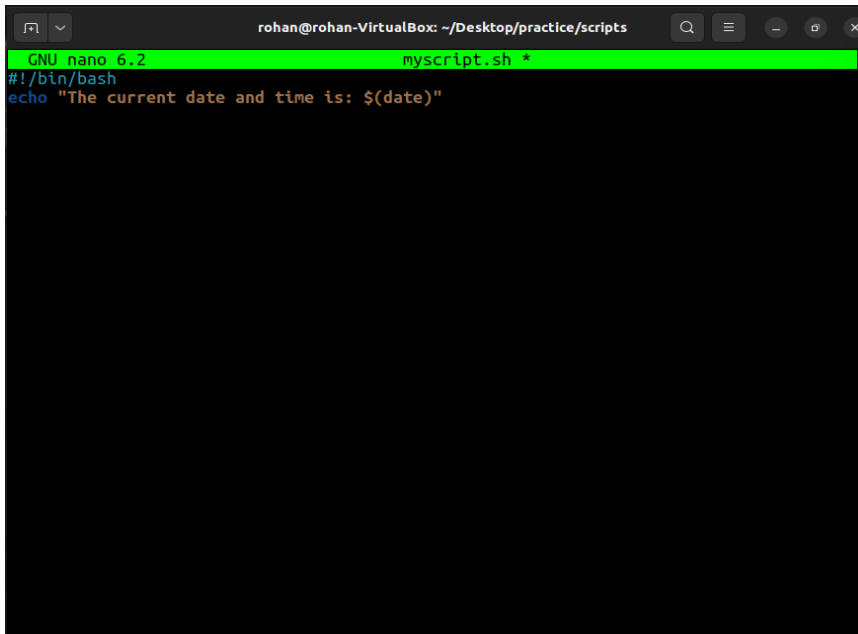
**cd scripts**

**touch myscripts.sh**

7. Add the following code to "myscript.sh":

**#!/bin/bash**

## 8. echo "Hello World!"

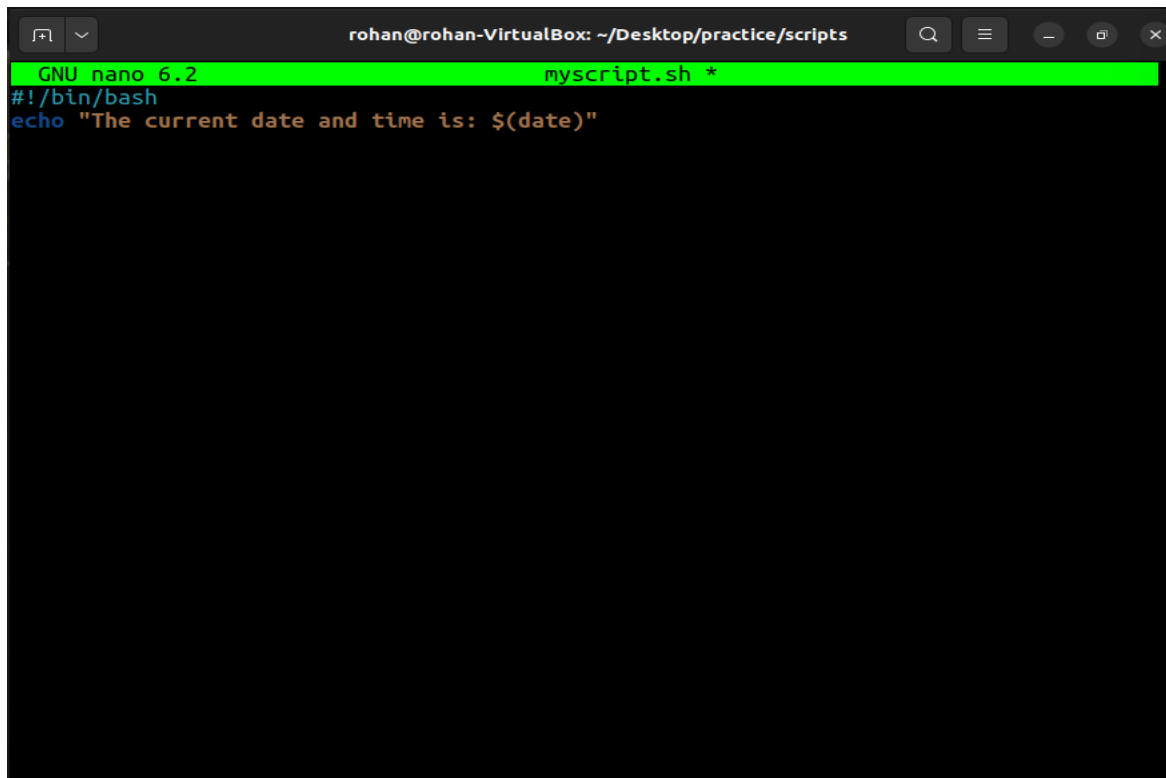


```
rohan@rohan-VirtualBox: ~/Desktop/practice/scripts
GNU nano 6.2 mysript.sh *
#!/bin/bash
echo "The current date and time is: $(date)"
```

9. Make "myscript.sh" executable using the command "chmod +x myscript.sh".

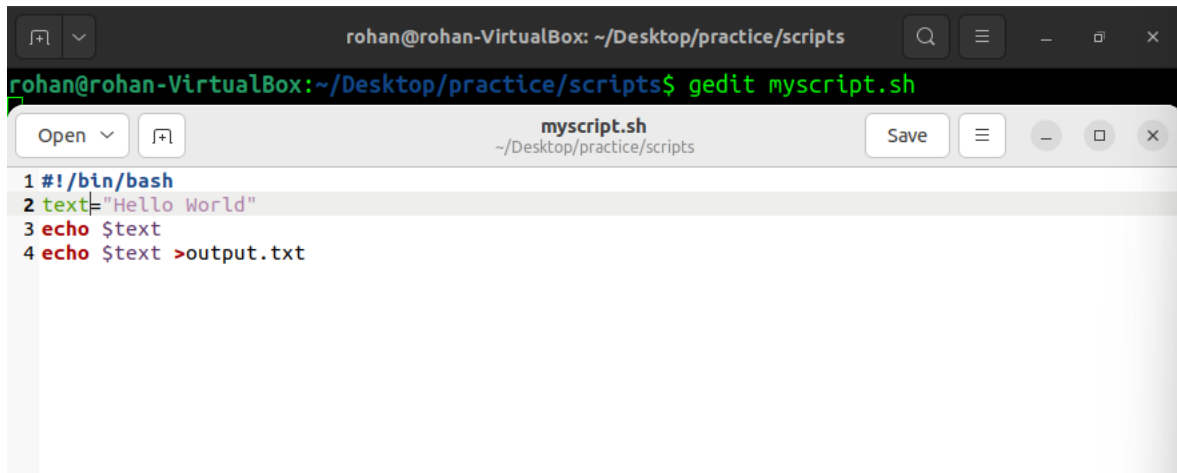
10. Run "myscript.sh" using the command "./myscript.sh".

echo



```
rohan@rohan-VirtualBox: ~/Desktop/practice/scripts
GNU nano 6.2 mysript.sh *
#!/bin/bash
echo "The current date and time is: $(date)"
```

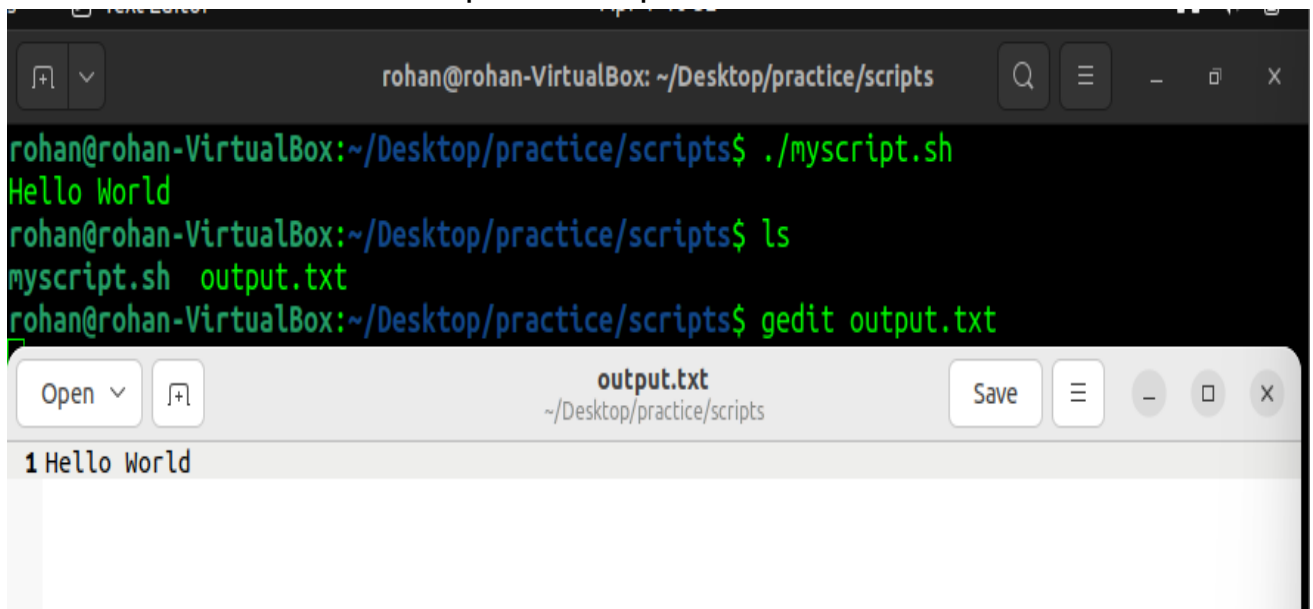
11. Add a line to "myscript.sh" that creates a new file called "output.txt" in the same directory and writes the output of the "echo" command to it.



The screenshot shows a terminal window with the title bar "rohan@rohan-VirtualBox: ~/Desktop/practice/scripts". The command prompt is "rohan@rohan-VirtualBox:~/Desktop/practice/scripts\$ gedit myscript.sh". Below the terminal, a gedit window titled "myscript.sh" is open, showing the following code:

```
1 #!/bin/bash
2 text="Hello World"
3 echo $text
4 echo $text >output.txt
```

12. Run "myscript.sh" again and verify that "output.txt" has been created and contains the expected output.



The screenshot shows a terminal window with the title bar "rohan@rohan-VirtualBox: ~/Desktop/practice/scripts". The command prompt is "rohan@rohan-VirtualBox:~/Desktop/practice/scripts\$ ./myscript.sh". The output of the script is "Hello World". The command prompt is then "rohan@rohan-VirtualBox:~/Desktop/practice/scripts\$ ls", and the output is "myscript.sh output.txt". The command prompt is then "rohan@rohan-VirtualBox:~/Desktop/practice/scripts\$ gedit output.txt". Below the terminal, a gedit window titled "output.txt" is open, showing the following content:

```
1 Hello World
```

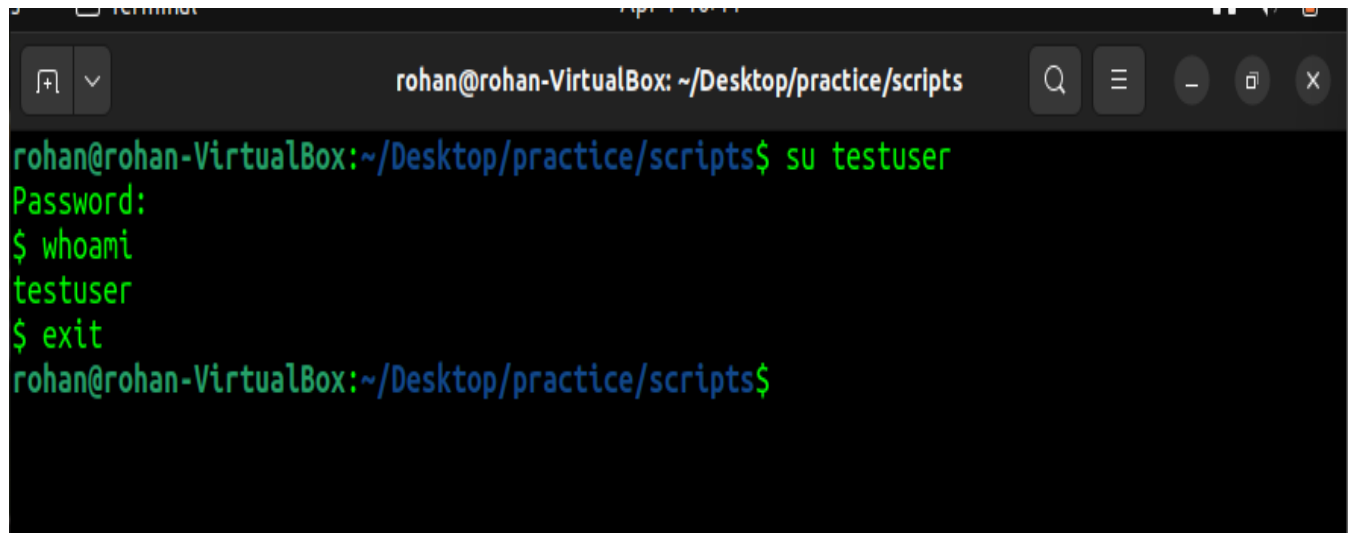
13. Create a new user account called "testuser".

```
sudo useradd -m testuser
sudo passwd testuser
```

14. Switch to the "test user" account using the command "su testuser".

15. Verify that you are now logged in as "testuser" using the command "whoami".

16. Switch back to your original user account using the command "exit".

A terminal window titled 'rohan@rohan-VirtualBox: ~/Desktop/practice/scripts'. The window shows a sequence of commands and their outputs: 'su testuser' is entered, followed by 'Password:' on a new line. Then '\$ whoami' is entered, and 'testuser' is output on the next line. Finally, '\$ exit' is entered, and the prompt returns to 'rohan@rohan-VirtualBox:~/Desktop/practice/scripts\$'.

```
rohan@rohan-VirtualBox:~/Desktop/practice/scripts$ su testuser
Password:
$ whoami
testuser
$ exit
rohan@rohan-VirtualBox:~/Desktop/practice/scripts$
```