

Assignment for Linux skills

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

```
farman@farman-VirtualBox:~/Desktop$ mkdir practice
farman@farman-VirtualBox:~/Desktop$ cd practice
```

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

```
farman@farman-VirtualBox:~/Desktop/practice$ touch file1.txt
farman@farman-VirtualBox:~/Desktop/practice$ cat >file1 Good Morning..
cat: Good: No such file or directory
cat: Morning..: No such file or directory
farman@farman-VirtualBox:~/Desktop/practice$ cat >file1 Good Morning..
cat: Good: No such file or directory
cat: Morning..: No such file or directory
farman@farman-VirtualBox:~/Desktop/practice$ cat >file1
Good Morning....
^Z
[2]+  Stopped                  cat > file1
farman@farman-VirtualBox:~/Desktop/practice$ more file1
Good Morning....
```

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

```
Good Morning....
farman@farman-VirtualBox:~/Desktop/practice$ touch file2.txt
farman@farman-VirtualBox:~/Desktop/practice$ cp file1 file2
farman@farman-VirtualBox:~/Desktop/practice$ more file2
Good Morning....
```

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

```
farman@farman-VirtualBox:~/Desktop/practice$ mkdir backup
farman@farman-VirtualBox:~/Desktop/practice$ mv file2 backup
farman@farman-VirtualBox:~/Desktop/practice$ cd backup
farman@farman-VirtualBox:~/Desktop/practice/backup$ ls
file2
```

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

```

farman@farman-VirtualBox:~/Desktop/practice/backup$ cd ..
farman@farman-VirtualBox:~/Desktop/practice$ mkdir scripts
farman@farman-VirtualBox:~/Desktop/practice$ cd scripts
farman@farman-VirtualBox:~/Desktop/practice/scripts$ touch myscript.sh

```

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

```

farman@farman-VirtualBox:~/Desktop/practice$ mkdir scripts
farman@farman-VirtualBox:~/Desktop/practice$ cd scripts
farman@farman-VirtualBox:~/Desktop/practice/scripts$ touch myscript.sh
farman@farman-VirtualBox:~/Desktop/practice/scripts$ cat >myscript.sh
#!/bin/bash

```

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

```
#!/bin/bash
```

```

farman@farman-VirtualBox:~/Desktop/practice/scripts$ touch myscript.sh
farman@farman-VirtualBox:~/Desktop/practice/scripts$ cat >myscript.sh
#!/bin/bash
^Z
[3]+  Stopped                  cat > myscript.sh
farman@farman-VirtualBox:~/Desktop/practice/scripts$ more myscript.sh
#!/bin/bash

```

8. echo "Hello World!"

```

farman@farman-VirtualBox:~/Desktop/practice/scripts$ echo "Hello World"
Hello World
farman@farman-VirtualBox:~/Desktop/practice/scripts$ chmod +x myscript.sh
farman@farman-VirtualBox:~/Desktop/practice/scripts$ ./myscript.sh
bash: ./myscript.sh: /bin/bash: bad interpreter: Text file busy

```

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

```

farman@farman-VirtualBox:~/Desktop/practice/scripts$ echo "Hello World"
Hello World
farman@farman-VirtualBox:~/Desktop/practice/scripts$ chmod +x myscript.sh
farman@farman-VirtualBox:~/Desktop/practice/scripts$ ./myscript.sh
bash: ./myscript.sh: /bin/bash: bad interpreter: Text file busy

```

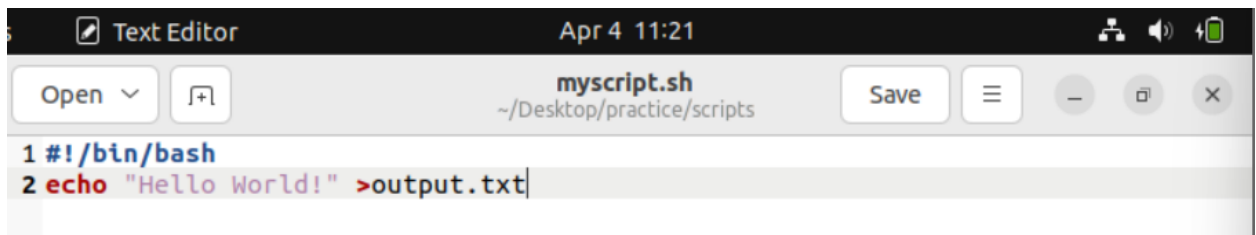
10. Run "myscript.sh" using the command "./myscript.sh".

```

farman@farman-VirtualBox:~/Desktop/practice/scripts$ echo "Hello World"
Hello World
farman@farman-VirtualBox:~/Desktop/practice/scripts$ chmod +x myscript.sh
farman@farman-VirtualBox:~/Desktop/practice/scripts$ ./myscript.sh
bash: ./myscript.sh: /bin/bash: bad interpreter: Text file busy

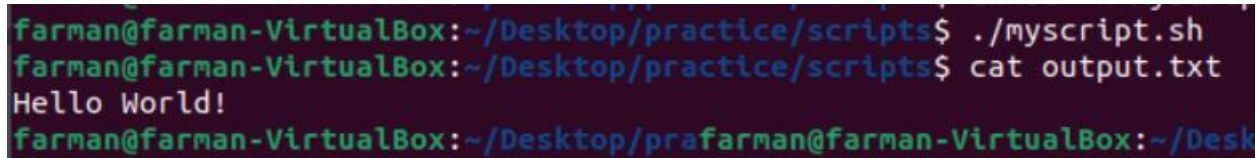
```

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.



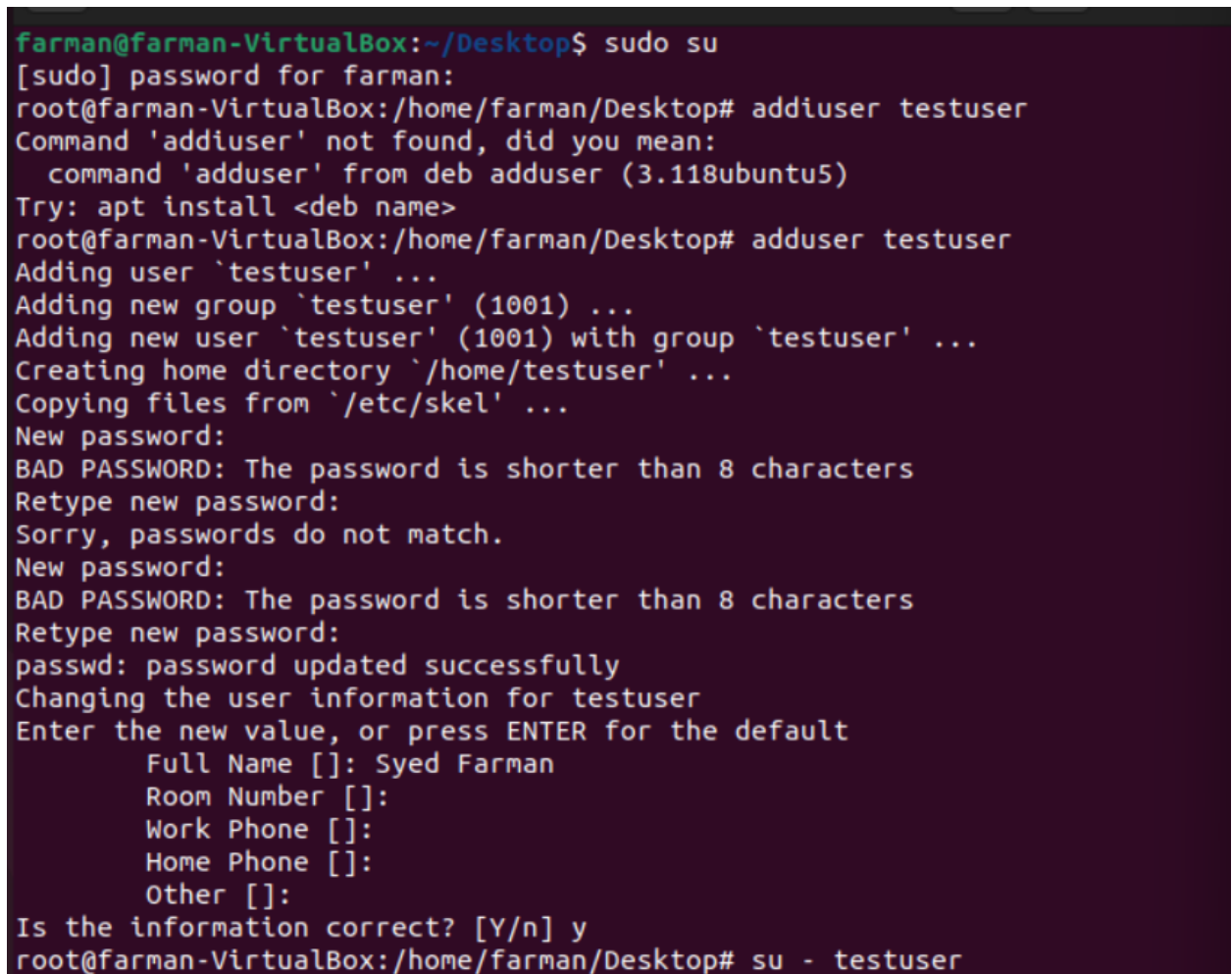
```
1 #!/bin/bash
2 echo "Hello World!" >output.txt
```

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



```
farman@farman-VirtualBox:~/Desktop/practice/scripts$ ./myscript.sh
farman@farman-VirtualBox:~/Desktop/practice/scripts$ cat output.txt
Hello World!
```

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



```
farman@farman-VirtualBox:~/Desktop$ sudo su
[sudo] password for farman:
root@farman-VirtualBox:/home/farman/Desktop# adduser testuser
Command 'adduser' not found, did you mean:
  command 'adduser' from deb adduser (3.118ubuntu5)
Try: apt install <deb name>
root@farman-VirtualBox:/home/farman/Desktop# adduser testuser
Adding user `testuser' ...
Adding new group `testuser' (1001) ...
Adding new user `testuser' (1001) with group `testuser' ...
Creating home directory `/home/testuser' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
Sorry, passwords do not match.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for testuser
Enter the new value, or press ENTER for the default
  Full Name []: Syed Farman
  Room Number []:
  Work Phone []:
  Home Phone []:
  Other []:
Is the information correct? [Y/n] y
root@farman-VirtualBox:/home/farman/Desktop# su - testuser
```

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

```
Work Phone []:  
Home Phone []:  
Other []:  
Is the information correct? [Y/n] y  
root@farman-VirtualBox:/home/farman/Desktop# su - testuser
```

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

```
testuser@farman-VirtualBox:~$ whoami  
testuser  
testuser@farman-VirtualBox:~$ exit  
logout  
root@farman-VirtualBox:/home/farman/Desktop#
```

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

```
testuser@farman-VirtualBox:~$ whoami  
testuser  
testuser@farman-VirtualBox:~$ exit  
logout  
root@farman-VirtualBox:/home/farman/Desktop#
```