

Linux Assignment-1

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

```
deepa@deepa-VirtualBox:~$ cd
deepa@deepa-VirtualBox:~$ mkdir practice
deepa@deepa-VirtualBox:~$ ls
Desktop  Downloads  Pictures  Public  Templates
Documents Music      practice snap    Videos
deepa@deepa-VirtualBox:~$ cd practice
deepa@deepa-VirtualBox:~/practice$
```

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

```
deepa@deepa-VirtualBox:~$ cd practice
deepa@deepa-VirtualBox:~/practice$ touch file1.txt
deepa@deepa-VirtualBox:~/practice$ nano file1.txt
deepa@deepa-VirtualBox:~/practice$
```

```
deepa@deepa-VirtualBox:~/practice$ cat file1.txt
hey
good morning
```

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

```
deepa@deepa-VirtualBox:~/practice$ cp file1.txt file2.txt
deepa@deepa-VirtualBox:~/practice$ ls
file1.txt  file2.txt
deepa@deepa-VirtualBox:~/practice$ cat file2.txt
hey
good morning
```

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

```
deepa@deepa-VirtualBox:~/practice$ mkdir backup
deepa@deepa-VirtualBox:~/practice$ mv file2.txt backup/
deepa@deepa-VirtualBox:~/practice$ ls
backup  file1.txt
deepa@deepa-VirtualBox:~/practice$ cat backup
cat: backup: Is a directory
deepa@deepa-VirtualBox:~/practice$ cd backup
deepa@deepa-VirtualBox:~/practice/backup$ ls
file2.txt
```

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

```
deepa@deepa-VirtualBox:~$ cd practice
deepa@deepa-VirtualBox:~/practice$ mkdir scripts
deepa@deepa-VirtualBox:~/practice$ ls
backup  file1.txt  scripts
```

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

```
deepa@deepa-VirtualBox:~/practice$ cd scripts
deepa@deepa-VirtualBox:~/practice/scripts$ touch myscript.sh
deepa@deepa-VirtualBox:~/practice/scripts$ ls
myscript.sh
```

7. Add the following code to "myscript.sh":
#!/bin/bash

```
deepa@deepa-VirtualBox:~/practice/scripts$ nano myscript.sh
deepa@deepa-VirtualBox:~/practice/scripts$ cat myscript.sh
#!/bin/bash
```

8. echo "Hello World!"

```
deepa@deepa-VirtualBox:~/practice/scripts$ echo "Hello World!">myscript.sh
deepa@deepa-VirtualBox:~/practice/scripts$ cat myscript.sh
Hello World!
```

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

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

```
deepa@deepa-VirtualBox:~/practice/scripts$ chmod 777 myscript.sh
deepa@deepa-VirtualBox:~/practice/scripts$ ./myscript.sh
Hello World!
```

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.

```
deepa@deepa-VirtualBox:~/practice/scripts$ echo "Hello Everyone!" > output.txt
deepa@deepa-VirtualBox:~/practice/scripts$ cat output.txt
Hello Everyone!
```

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

```
deepa@deepa-VirtualBox:~/practice/scripts$ ./myscript.sh
Hello World!
```

13. Create a new user account called "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".

```
deepa@deepa-VirtualBox:~/practice/scripts$ sudo adduser testuser
Adding user `testuser' ...
Adding new group `testuser' (1001) ...
Adding new user `testuser' (1001) with group `testuser' ...
The home directory `/home/testuser' already exists. Not copying from `/etc/skel'.
New password:
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 []: dee
    Room Number []: 1
    Work Phone []: 91
    Home Phone []: 98
    Other []:
Is the information correct? [Y/n] y
deepa@deepa-VirtualBox:~/practice/scripts$ su testuser
Password:
testuser@deepa-VirtualBox:/home/deepa/practice/scripts$ whoami
testuser
testuser@deepa-VirtualBox:/home/deepa/practice/scripts$ exit
exit
deepa@deepa-VirtualBox:~/practice/scripts$
```