

Linux Assignment -1

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

```
ronish@ronish-VirtualBox:~/Desktop$ mkdir practice1
ronish@ronish-VirtualBox:~/Desktop$ cd practice1
ronish@ronish-VirtualBox:~/Desktop/practice1$
```

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

```
ronish@ronish-VirtualBox:~/Desktop/practice1$ touch f1.txt
ronish@ronish-VirtualBox:~/Desktop/practice1$ echo "Ubuntu">f1.txt
ronish@ronish-VirtualBox:~/Desktop/practice1$ cat f1.txt
Ubuntu
```

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

```
ronish@ronish-VirtualBox:~/Desktop/practice1$ cp f1.txt f2.txt
ronish@ronish-VirtualBox:~/Desktop/practice1$ cat f2.txt
Ubuntu
```

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

```
ronish@ronish-VirtualBox:~/practice1$ mkdir backup1
ronish@ronish-VirtualBox:~/practice1$ mv f2.txt backup1/
ronish@ronish-VirtualBox:~/practice1$ cd backup1
ronish@ronish-VirtualBox:~/practice1/backup1$ ls
f2.txt
```

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

```
ronish@ronish-VirtualBox:~/practice1$ mkdir script1
ronish@ronish-VirtualBox:~/practice1$ ls
backup1  f1.txt  script1
```

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

```
ronish@ronish-VirtualBox:~/practice1$ cd script1
ronish@ronish-VirtualBox:~/practice1/script1$ touch myscript.sh
ronish@ronish-VirtualBox:~/practice1/script1$ ls
myscript.sh
```

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

#!/ bin/bash

```
ronish@ronish-VirtualBox:~/practice1/script1$ nano myscript.sh
ronish@ronish-VirtualBox:~/practice1/script1$ cat myscript.sh
#!/bin/bash
```

8. echo "Hello World!"

```
ronish@ronish-VirtualBox:~/practice1/script1$ echo "Hello World!">myscript.sh
ronish@ronish-VirtualBox:~/practice1/script1$ 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".

```
ronish@ronish-VirtualBox:~/practice1/script1$ chmod +x myscript.sh
ronish@ronish-VirtualBox:~/practice1/script1$ chmod 777 myscript.sh
ronish@ronish-VirtualBox:~/practice1/script1$ ./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.

```
ronish@ronish-VirtualBox:~/practice1/script1$ echo "Hi">output.txt
ronish@ronish-VirtualBox:~/practice1/script1$ cat output.txt
Hi
```

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

```
./myscript.sh: line 6: echo: command not found
ronish@ronish-VirtualBox:~/practice1/script1$ ./myscript.sh
Hello World!
```

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

```
ronish@ronish-VirtualBox:~/practice1/script1$ sudo adduser testuser
[sudo] password for ronish:
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:
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 []: Ronish
  Room Number []: 21
  Work Phone []: 14
  Home Phone []: 31
  Other []: 12
Is the information correct? [Y/n] n
Changing the user information for testuser
Enter the new value, or press ENTER for the default
  Full Name [Ronish]:
  Room Number [21]:
  Work Phone [14]:
  Home Phone [31]:
  Other [12]: 10
Is the information correct? [Y/n] y
```

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

```
ronish@ronish-VirtualBox:~/practice1/script1$ su testuser
Password:
su: Authentication failure
ronish@ronish-VirtualBox:~/practice1/script1$ su testuser
Password:
testuser@ronish-VirtualBox:/home/ronish/practice1/script1$
```

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

```
testuser@ronish-VirtualBox:/home/ronish/practice1/script1$ whoami  
testuser
```

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

```
testuser@ronish-VirtualBox:/home/ronish/practice1/script1$ exit  
exit
```