

Assignment for Linux skills

1. Create a new directory called "practice" in your home directory.
2. Inside the "practice" directory, create a new file called "file1.txt" and add some text to it.
3. Copy "file1.txt" to a new file called "file2.txt" in the same directory.
4. Move "file2.txt" to a new directory called "backup" that is located inside the "practice" directory.
5. Create a new directory called "scripts" inside the "practice" directory.
6. Create a new file called "myscript.sh" inside the "scripts" directory.
7. Add the following code to "myscript.sh":

```
#!/bin/bash
```
8.

```
echo "Hello World!"
```
9. Make "myscript.sh" executable using the command "chmod +x myscript.sh".
10. Run "myscript.sh" using the command "./myscript.sh".
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.
12. Run "myscript.sh" again and verify that "output.txt" has been created and contains the expected output.
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".

The image shows a Linux desktop environment with a terminal window and a text editor window.

Terminal Window:

```
adithya@ubuntu: ~/practice/scripts
adithya@ubuntu:~$ mkdir ~/practice
adithya@ubuntu:~$ ls -la
total 16
drwxr-xr-x 3 adithya adithya 4096 Apr 4 10:48 .
drwxr-xr-x 1 adithya adithya 4096 Apr 4 10:48 ..
drwxr-xr-x 2 adithya adithya 4096 Apr 4 10:48 scripts
adithya@ubuntu:~$ cd ~/practice
adithya@ubuntu:~/practice$ touch file1.txt
adithya@ubuntu:~/practice$ nano file1.txt
adithya@ubuntu:~/practice$ cd ~/practice
adithya@ubuntu:~/practice$ cp file1.txt file2.txt
adithya@ubuntu:~/practice$ cd ~/practice
adithya@ubuntu:~/practice$ mkdir backup
adithya@ubuntu:~/practice$ mv file2.txt backup/
adithya@ubuntu:~/practice$ ls backup
file2.txt
adithya@ubuntu:~/practice$ cd ~/practice
adithya@ubuntu:~/practice$ mkdir scripts
adithya@ubuntu:~/practice$ ls
backup  file1.txt  scripts
adithya@ubuntu:~/practice$ cd scripts
adithya@ubuntu:~/practice/scripts$ touch myscripts.sh
adithya@ubuntu:~/practice/scripts$ nano myscripts.sh
adithya@ubuntu:~/practice/scripts$ chmod +x myscripts.sh
adithya@ubuntu:~/practice/scripts$ ls -l
total 4
-rwxrwxr-x 1 adithya adithya 13 Apr 4 10:48 myscripts.sh
adithya@ubuntu:~/practice/scripts$ ./myscripts.sh
hello
adithya@ubuntu:~/practice/scripts$ nano myscripts.sh
adithya@ubuntu:~/practice/scripts$ ./myscripts.sh
adithya@ubuntu:~/practice/scripts$ ls
myscripts.sh  output.txt
adithya@ubuntu:~/practice/scripts$ cat output.txt
hello
adithya@ubuntu:~/practice/scripts$
adithya@ubuntu:~/practice/scripts$ sudo su
[sudo] password for adithya:
adithya is not in the sudoers file. This incident will be reported.
adithya@ubuntu:~/practice/scripts$ su root
Password:
root@ubuntu:/home/adithya/practice/scripts# visudo
/etc/sudoers:38: syntax error
^Tnz
What now?
Options are:
(e)dit sudoers file again
e(x)it without saving changes to sudoers file
(Q)uit and save changes to sudoers file (DANGER!)

What now? sudo adduser testuser
Options are:
(e)dit sudoers file again
e(x)it without saving changes to sudoers file
(Q)uit and save changes to sudoers file (DANGER!)

What now? ^Cvisudo exiting due to signal: Interrupt
```

Text Editor Window:

The text editor window is titled "file1.txt" and shows the following content:

```
1 echo "hello good morning"
```

Activities Text Editor Apr 4 11:41

adithya@ubuntu: ~/practice/scripts

```
adithya@ubuntu:~$ mkdir ~/practice
adithya@ubuntu:~$ ls -
Desktop Documents Downloads Music Pictures practice Public snap Templates Videos
adithya@ubuntu:~$ cd ~/practice
adithya@ubuntu:~/practice$ touch file1.txt
adithya@ubuntu:~/practice$ nano file1.txt
adithya@ubuntu:~/practice$ cd ~/practice
adithya@ubuntu:~/practice$ cp file1.txt file2.txt
adithya@ubuntu:~/practice$ cd ~/practice
adithya@ubuntu:~/practice$ mkdir backup
adithya@ubuntu:~/practice$ mv file2.txt backup/
adithya@ubuntu:~/practice$ ls backup/
file2.txt
adithya@ubuntu:~/practice$ cd ~/practice
adithya@ubuntu:~/practice$ mkdir scripts
adithya@ubuntu:~/practice$ ls
backup file1.txt scripts
adithya@ubuntu:~/practice$ cd scripts
adithya@ubuntu:~/practice/scripts$ touch myscripts.sh
adithya@ubuntu:~/practice/scripts$ nano myscripts.sh
adithya@ubuntu:~/practice/scripts$ chmod +x myscripts.sh
adithya@ubuntu:~/practice/scripts$ ls -l
total 4
-rwxr-xr-x 1 adithya adithya 13 Apr  4 10:48 myscripts.sh
adithya@ubuntu:~/practice/scripts$ ./myscripts.sh
hello
adithya@ubuntu:~/practice/scripts$ nano myscripts.sh
adithya@ubuntu:~/practice/scripts$ ./myscripts.sh
hello
adithya@ubuntu:~/practice/scripts$ ls
myscripts.sh output.txt
adithya@ubuntu:~/practice/scripts$ cat output.txt
hello
adithya@ubuntu:~/practice/scripts$
adithya@ubuntu:~/practice/scripts$ sudo su
[sudo] password for adithya:
adithya is not in the sudoers file. This incident will be reported.
adithya@ubuntu:~/practice/scripts$ su root
Password:
root@ubuntu:/home/adithya/practice/scripts# visudo
/etc/sudoers:5B:5: syntax error
^TZ
^
What now?
Options are:
(e)dit sudoers file again
(e)x)it without saving changes to sudoers file
(Q)uit and save changes to sudoers file (DANGER!)

What now? sudo adduser testuser
Options are:
(e)dit sudoers file again
(e)x)it without saving changes to sudoers file
(Q)uit and save changes to sudoers file (DANGER!)

What now? ^Cvisudo exiting due to signal: Interrupt
root@ubuntu:/home/adithya/practice/scripts# visudo
root@ubuntu:/home/adithya/practice/scripts#
```

file2.txt
~/practice/backup

output.txt
file2.txt

```
1 echo "hello good morning"
```

Plain Text ▾ Tab Width: 8 ▾ Ln 1, Col 1 ▾ INS

Activities Text Editor Apr 4 11:40

adithya@ubuntu: ~/practice/scripts

```
adithya@ubuntu:~/practice/scripts$ ./myscripts.sh
hello
adithya@ubuntu:~/practice/scripts$ nano myscripts.sh
adithya@ubuntu:~/practice/scripts$ ./myscripts.sh
hello
adithya@ubuntu:~/practice/scripts$ ls
myscripts.sh output.txt
adithya@ubuntu:~/practice/scripts$ cat output.txt
hello
adithya@ubuntu:~/practice/scripts$
adithya@ubuntu:~/practice/scripts$ sudo su
[sudo] password for adithya:
adithya is not in the sudoers file. This incident will be reported.
adithya@ubuntu:~/practice/scripts$ su root
Password:
root@ubuntu:/home/adithya/practice/scripts# visudo
/etc/sudoers:5B:5: syntax error
^TZ
^
What now?
Options are:
(e)dit sudoers file again
(e)x)it without saving changes to sudoers file
(Q)uit and save changes to sudoers file (DANGER!)

What now? sudo adduser testuser
Options are:
(e)dit sudoers file again
(e)x)it without saving changes to sudoers file
(Q)uit and save changes to sudoers file (DANGER!)

What now? ^Cvisudo exiting due to signal: Interrupt
root@ubuntu:/home/adithya/practice/scripts# visudo
root@ubuntu:/home/adithya/practice/scripts#
```

output.txt
~/practice/scripts

```
1 hello
```

Plain Text ▾ Tab Width: 8 ▾ Ln 1, Col 1 ▾ INS

```
root@ubuntu:/home/adithya/practice/scripts# visudo
root@ubuntu:/home/adithya/practice/scripts#
[!] Stopped visudo
root@ubuntu:/home/adithya/practice/scripts# sudo adduser testuser
Adding user 'testuser' ...
Adding new group 'testuser' (100) ...
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:
passwd: password updated successfully
Changing the user information for testuser
Enter the new value, or press ENTER for the default
Full Name []: AdithyaP
Room Number []:
Work Phone []:
Home Phone []:
Other []:
Is the information correct? [Y/n] Y
root@ubuntu:/home/adithya/practice/scripts# su testuser
```