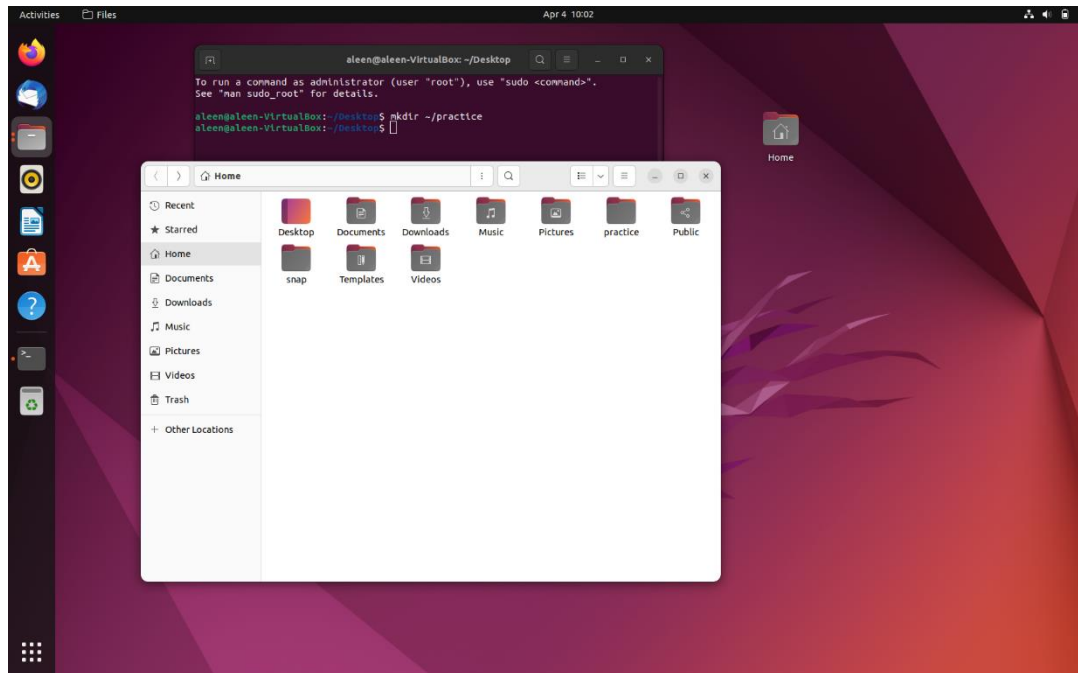


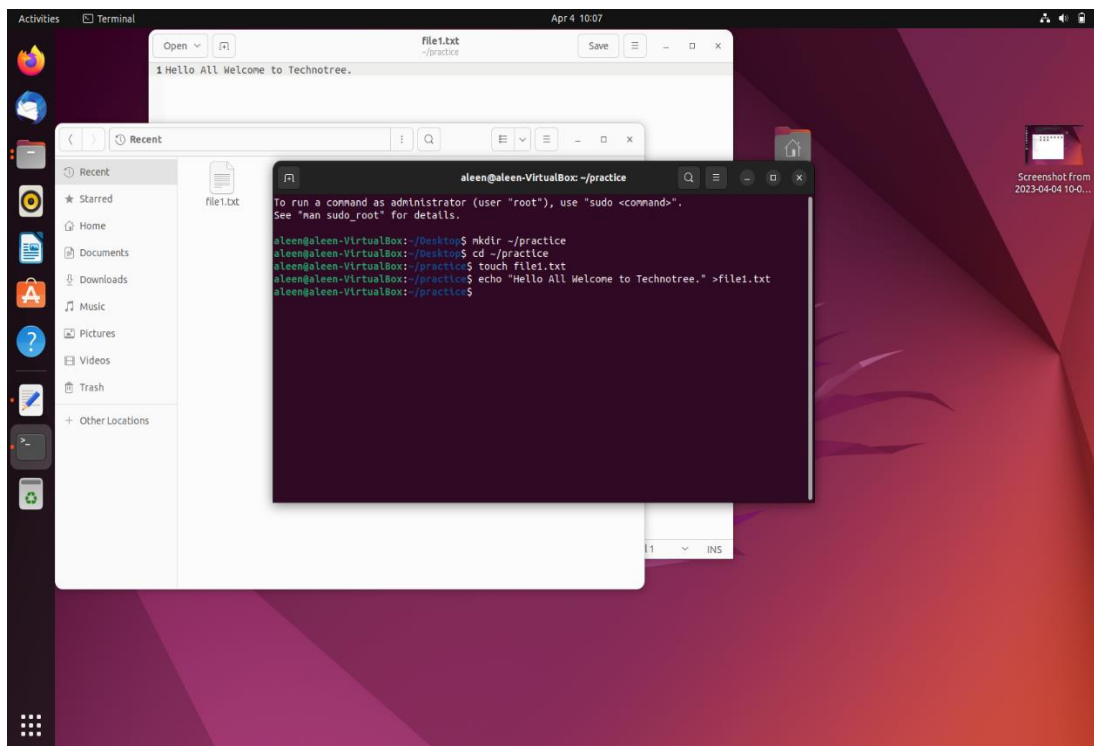
LINUX ASSIGNMENT 1

ALEEN ULLA

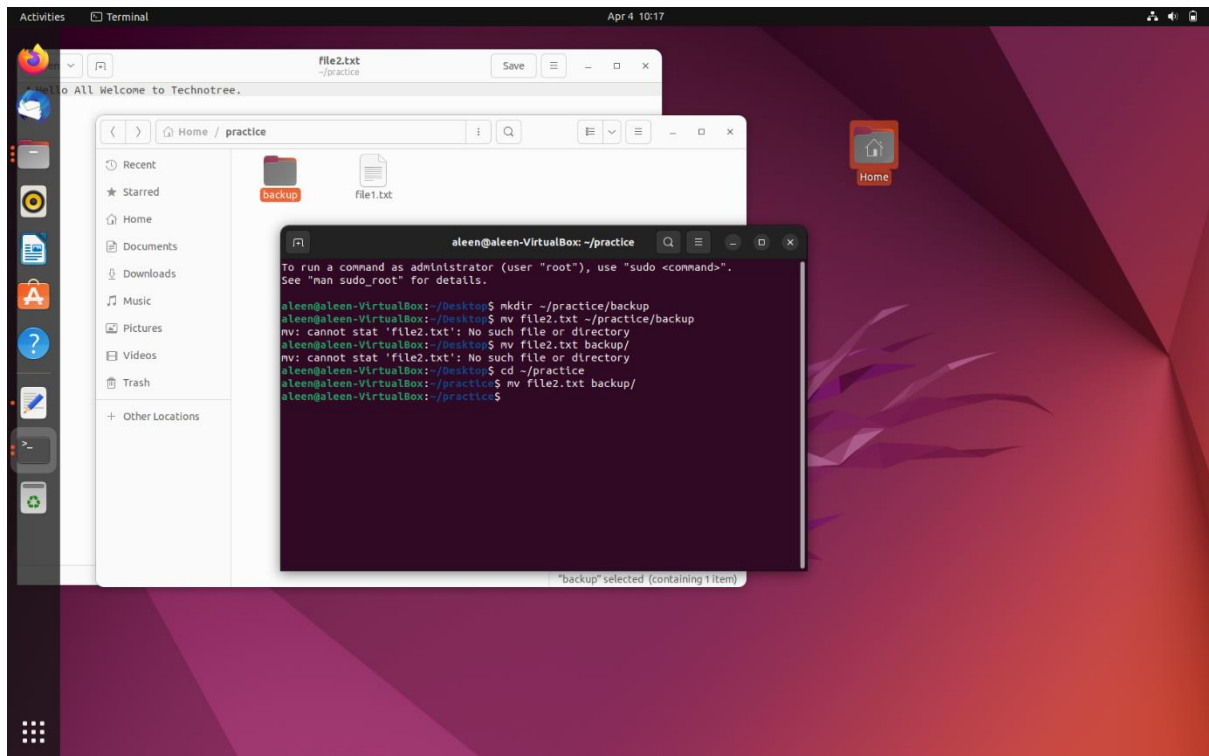
1. Create a new directory called "practice" in your home directory.



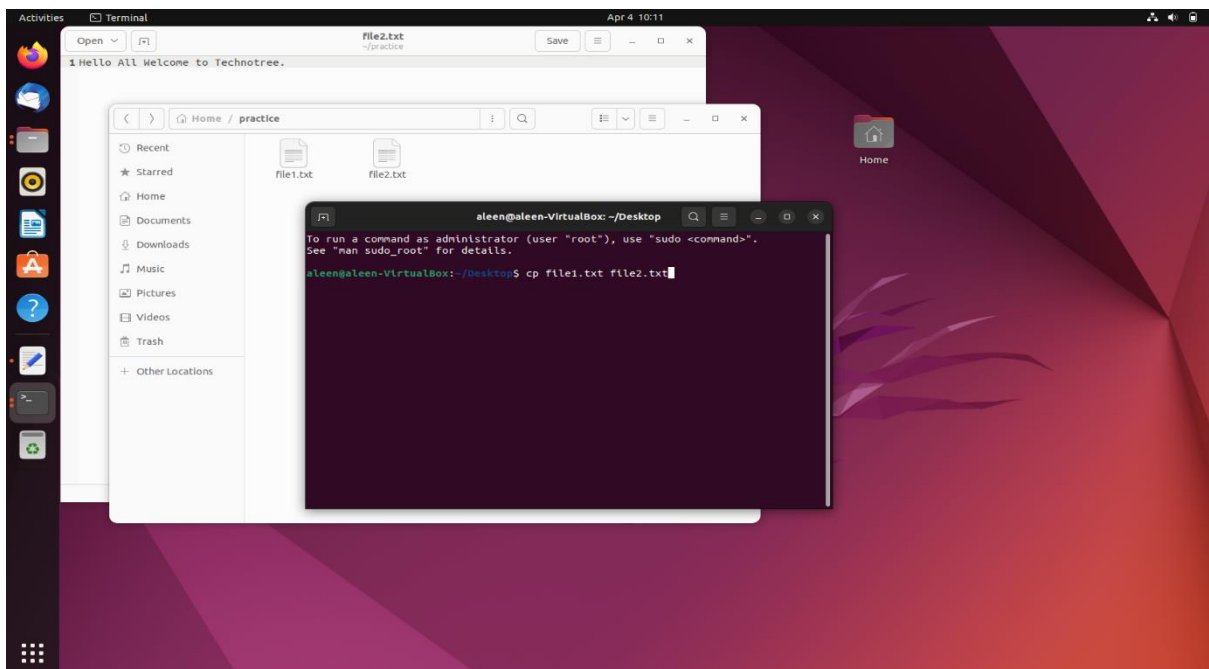
2. Inside the "practice" directory, create a new file called "file1.txt" and add some text to it.



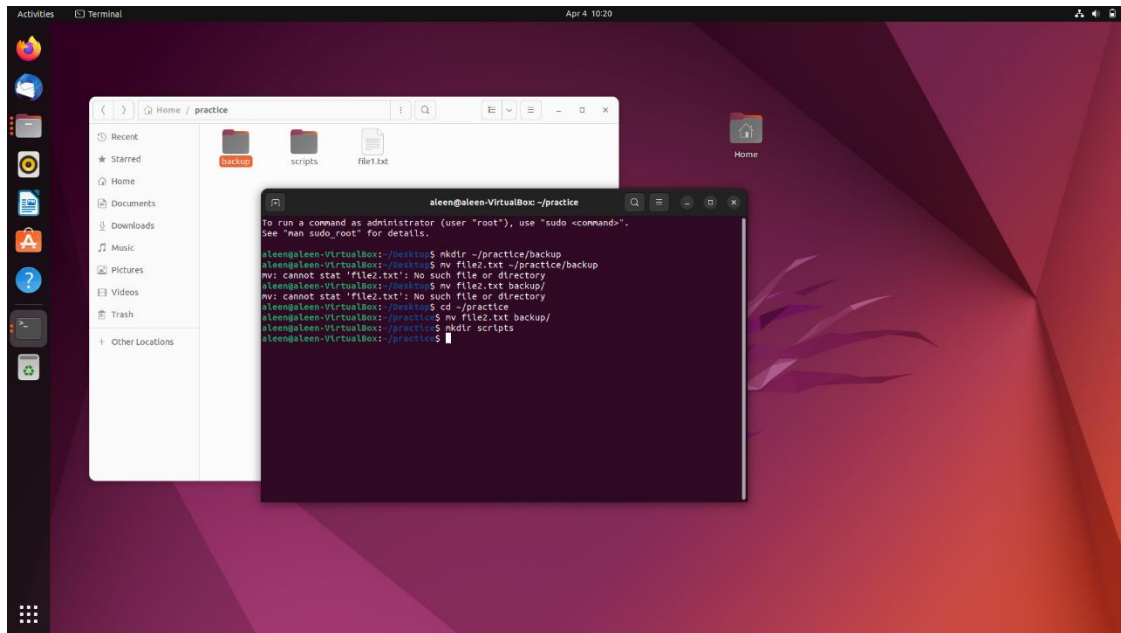
3. Copy "file1.txt" to a new file called "file2.txt" in the same directory.



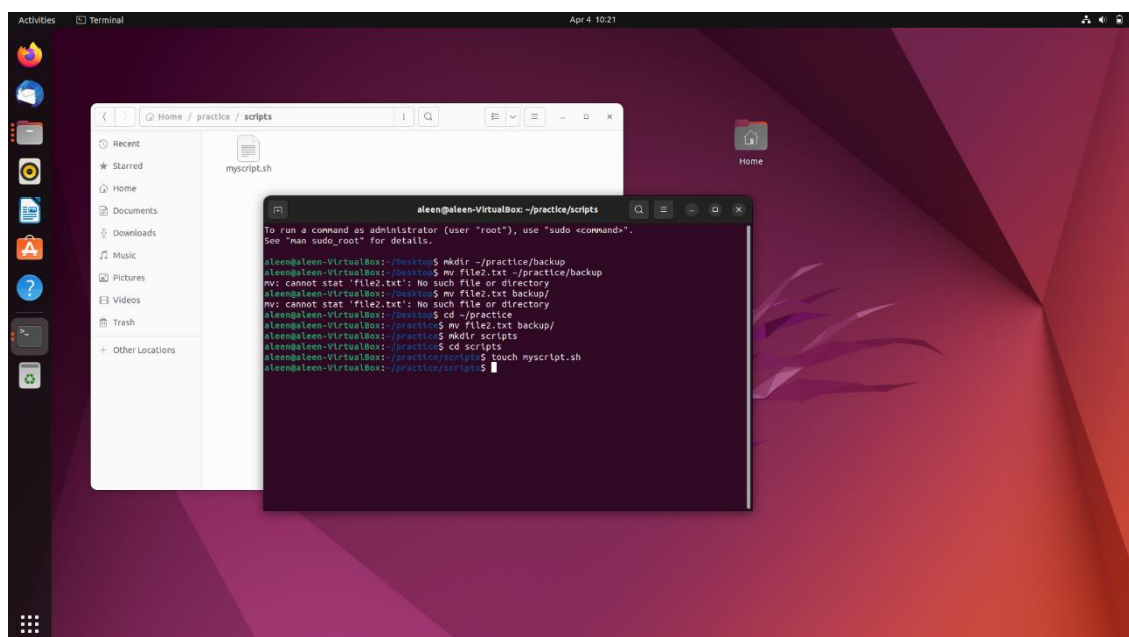
4. Move "file2.txt" to a new directory called "backup" that is located inside the "practice" directory.



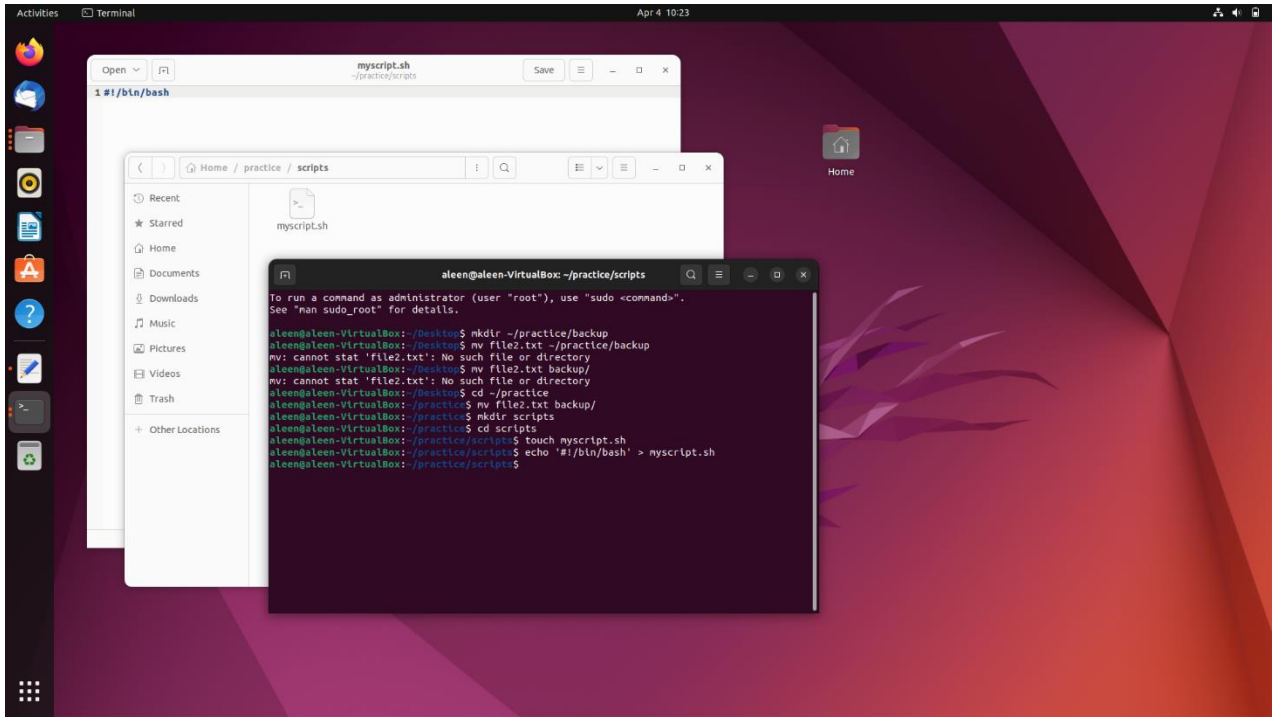
5. Create a new directory called "scripts" inside the "practice" directory.



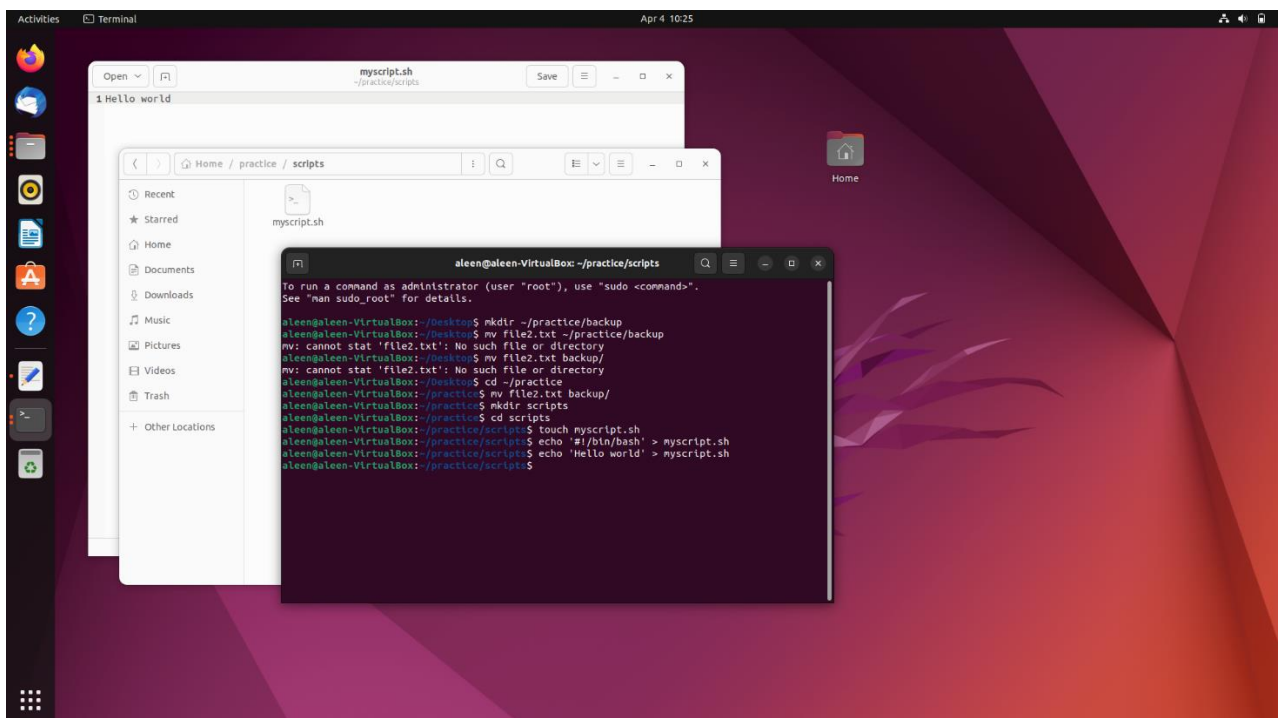
6. Create a new file called "myscript.sh" inside the "scripts" directory.



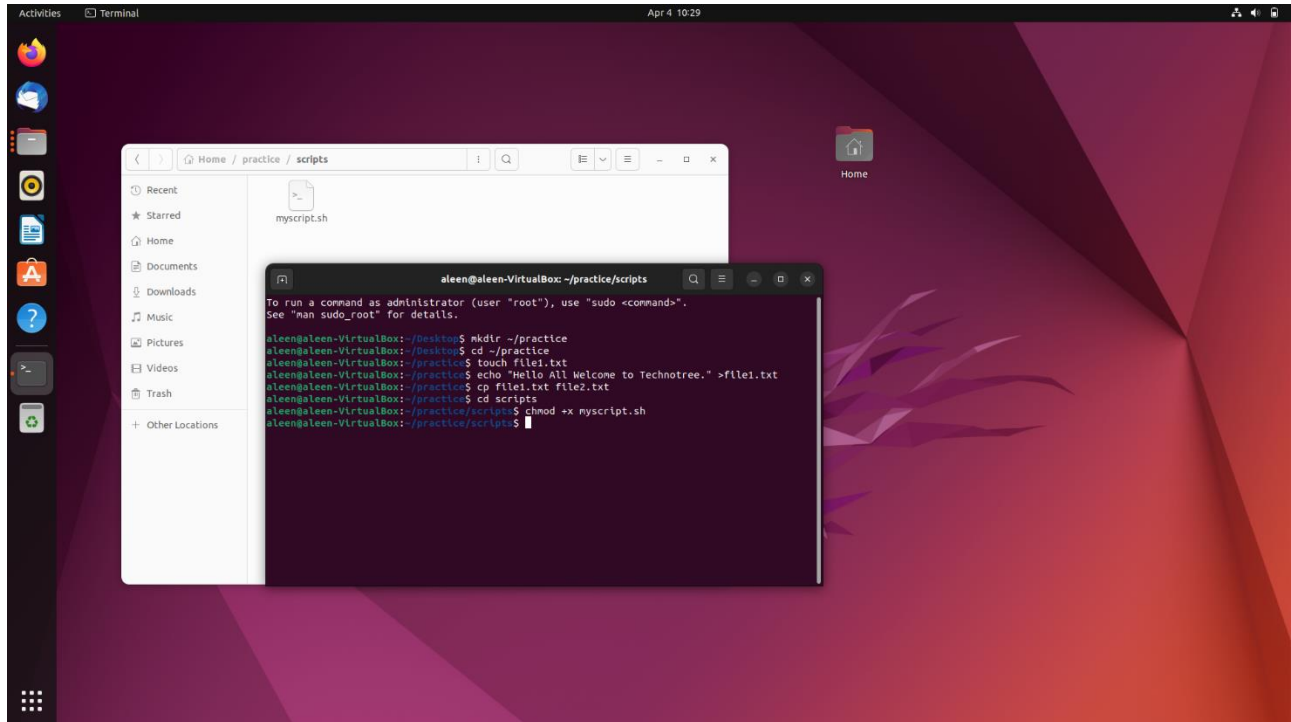
7. Add the following code to "myscript.sh":
#!/bin/bash



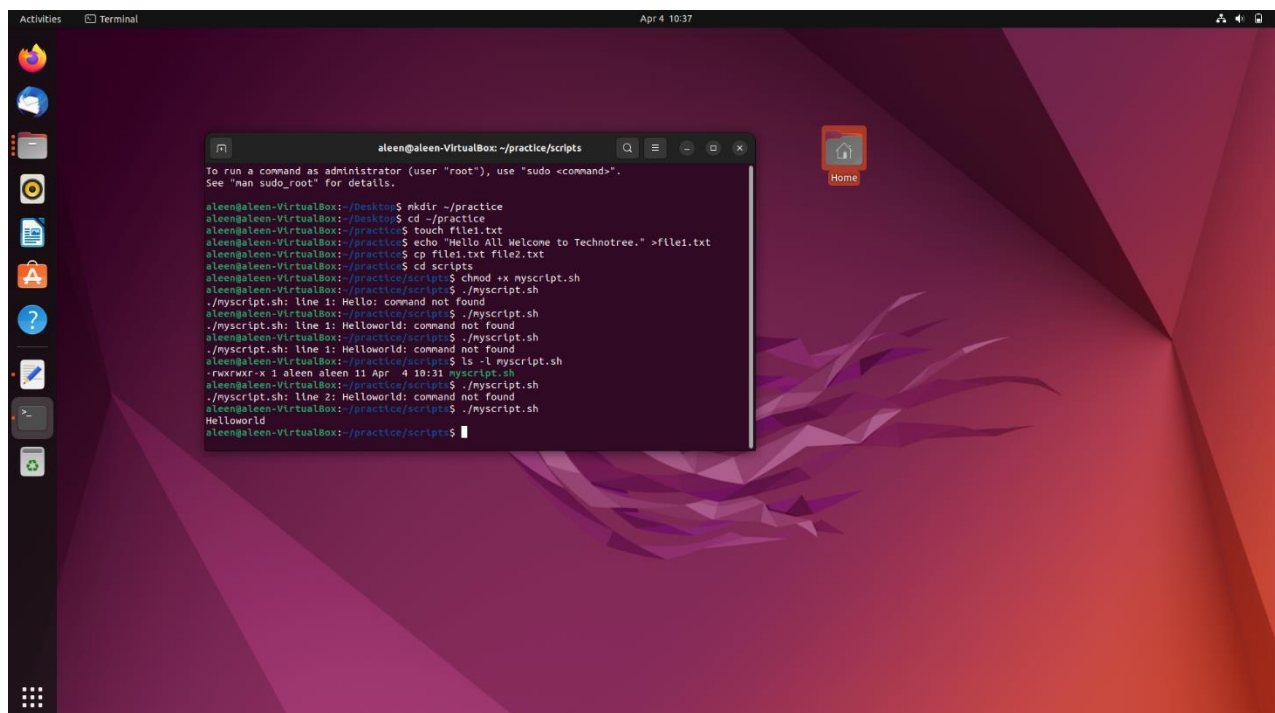
8. echo "Hello World!"



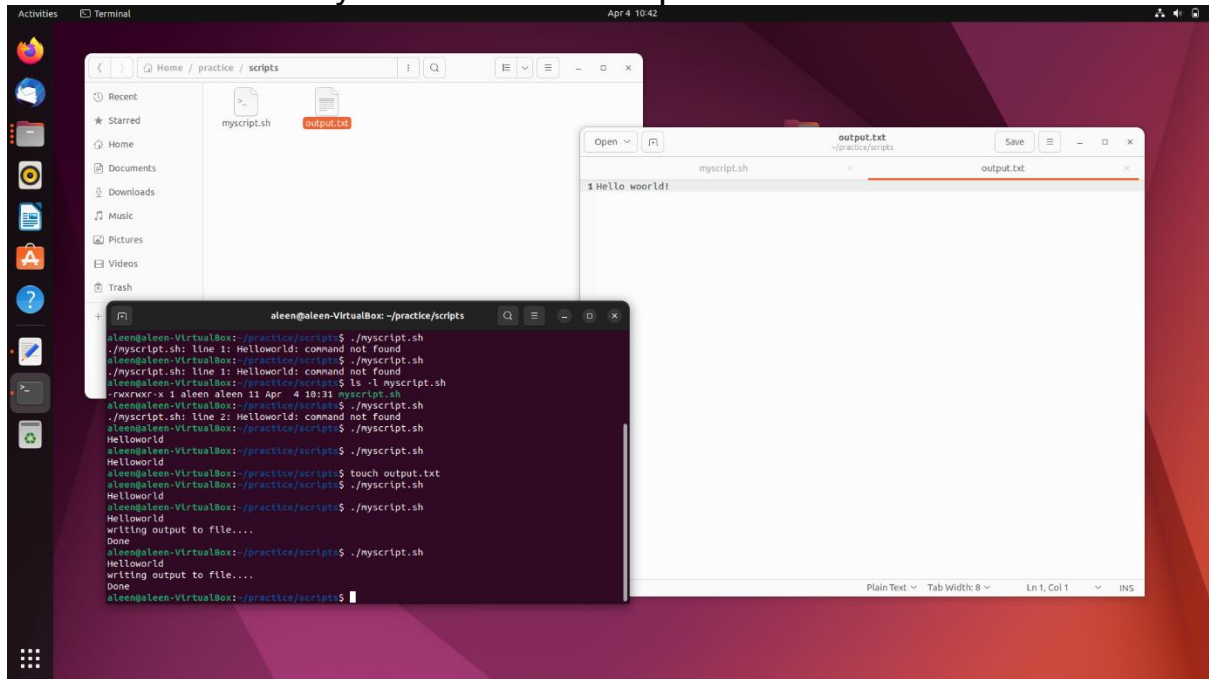
9. Make "myscript.sh" executable using the command "chmod +x myscript.sh".



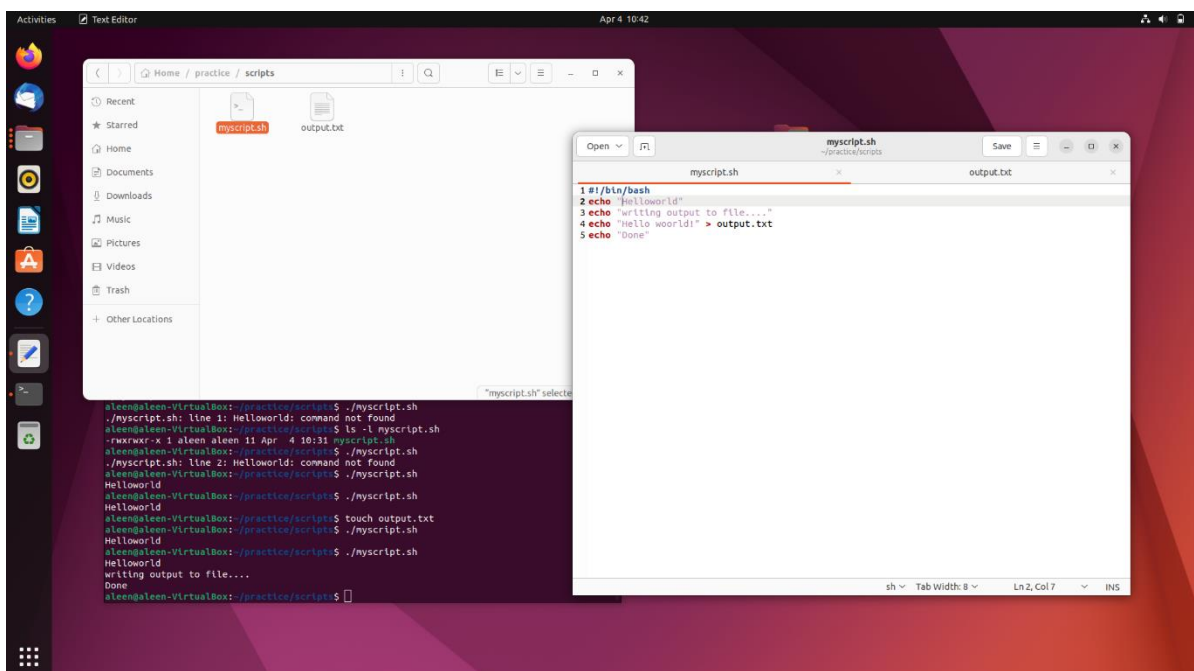
10. Run "myscript.sh" using the command `./myscript.sh`.



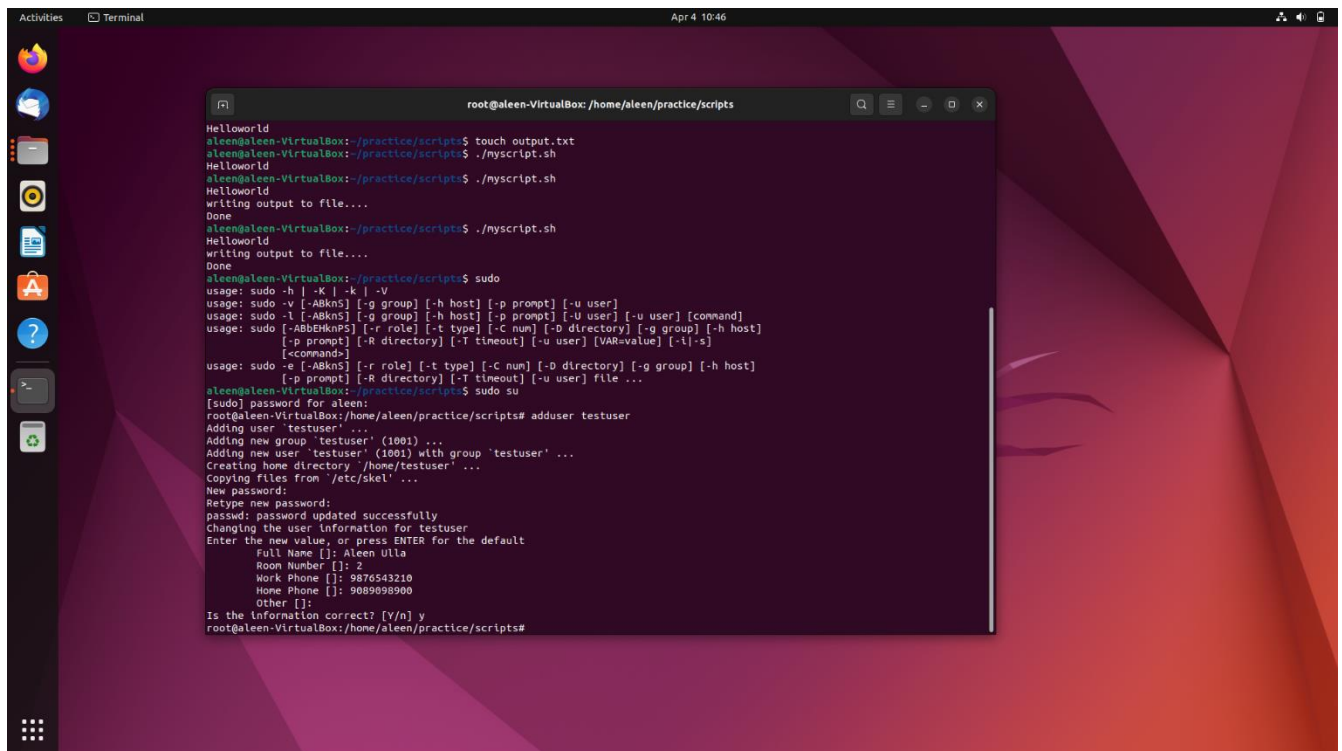
11. Add a line to "myscript.sh" that creates a new file called "output.txt" in the same directory and writes the output of the "echo" command to it.



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



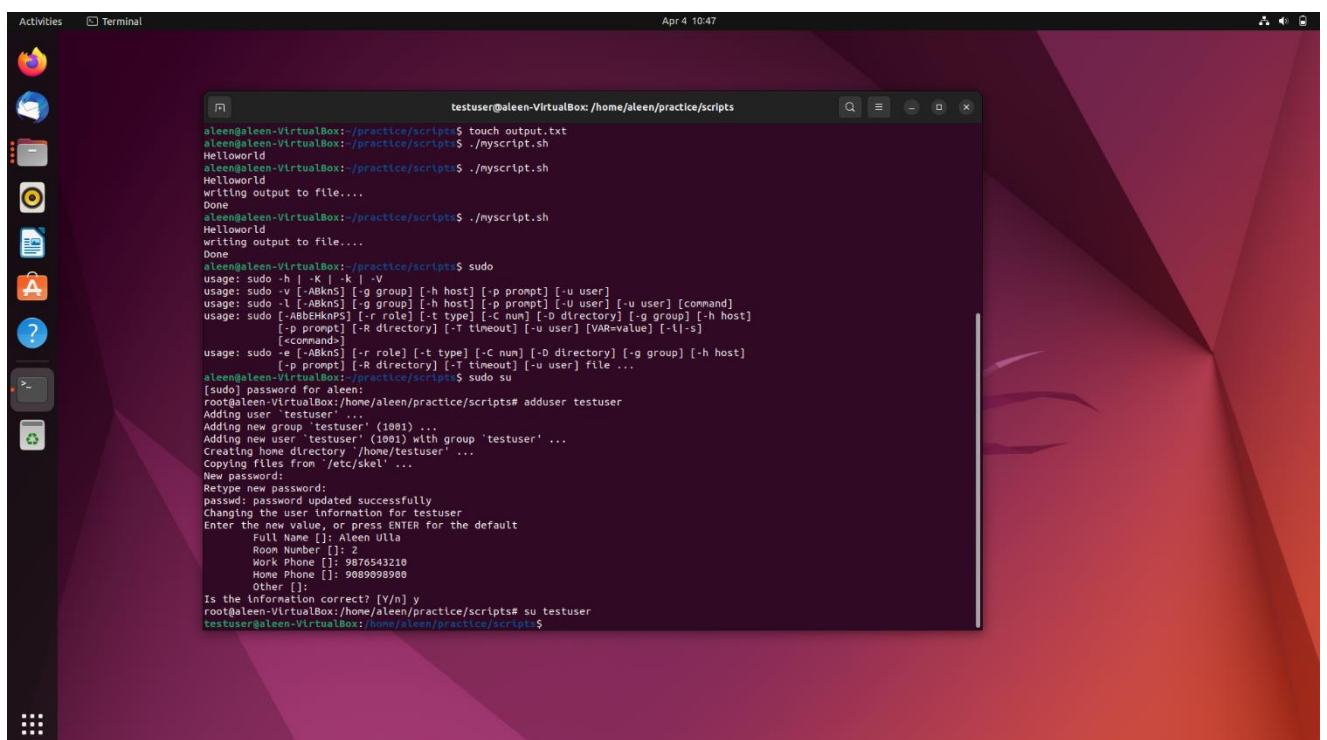
13. Create a new user account called "testuser".



A terminal window titled 'root@aleen-VirtualBox: /home/aleen/practice/scripts' shows the process of creating a new user. The user 'aleen' is logged in. The terminal shows the execution of 'touch output.txt', 'myscript.sh', and 'sudo su'. The 'adduser testuser' command is used to create the new user. The terminal displays the following output:

```
root@aleen-VirtualBox: /home/aleen/practice/scripts
Helloworld
aleen@aleen-VirtualBox: ~/practice/scripts$ touch output.txt
aleen@aleen-VirtualBox: ~/practice/scripts$ ./myscript.sh
Helloworld
aleen@aleen-VirtualBox: ~/practice/scripts$ ./myscript.sh
Helloworld
writing output to file....
Done
aleen@aleen-VirtualBox: ~/practice/scripts$ sudo
usage: sudo -h | -K | -k | -V
usage: sudo -v [-ABKnS] [-g group] [-h host] [-p prompt] [-u user]
usage: sudo -l [-ABKnS] [-g group] [-h host] [-p prompt] [-u user] [-u user] [command]
usage: sudo [-ABbEHknPS] [-r role] [-t type] [-C num] [-D directory] [-g group] [-h host]
[-p prompt] [-R directory] [-T timeout] [-u user] [VAR=value] [-i|-s]
[command]
usage: sudo -e [-ABKnS] [-r role] [-t type] [-C num] [-D directory] [-g group] [-h host]
[-p prompt] [-R directory] [-T timeout] [-u user] file ...
aleen@aleen-VirtualBox: ~/practice/scripts$ sudo su
[sudo] password for aleen:
root@aleen-VirtualBox: /home/aleen/practice/scripts# 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:
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 []: Aleen Ulla
Room Number []: 2
Work Phone []: 9876543210
Home Phone []: 9089098900
Other []:
Is the information correct? [Y/n] y
root@aleen-VirtualBox: /home/aleen/practice/scripts#
```

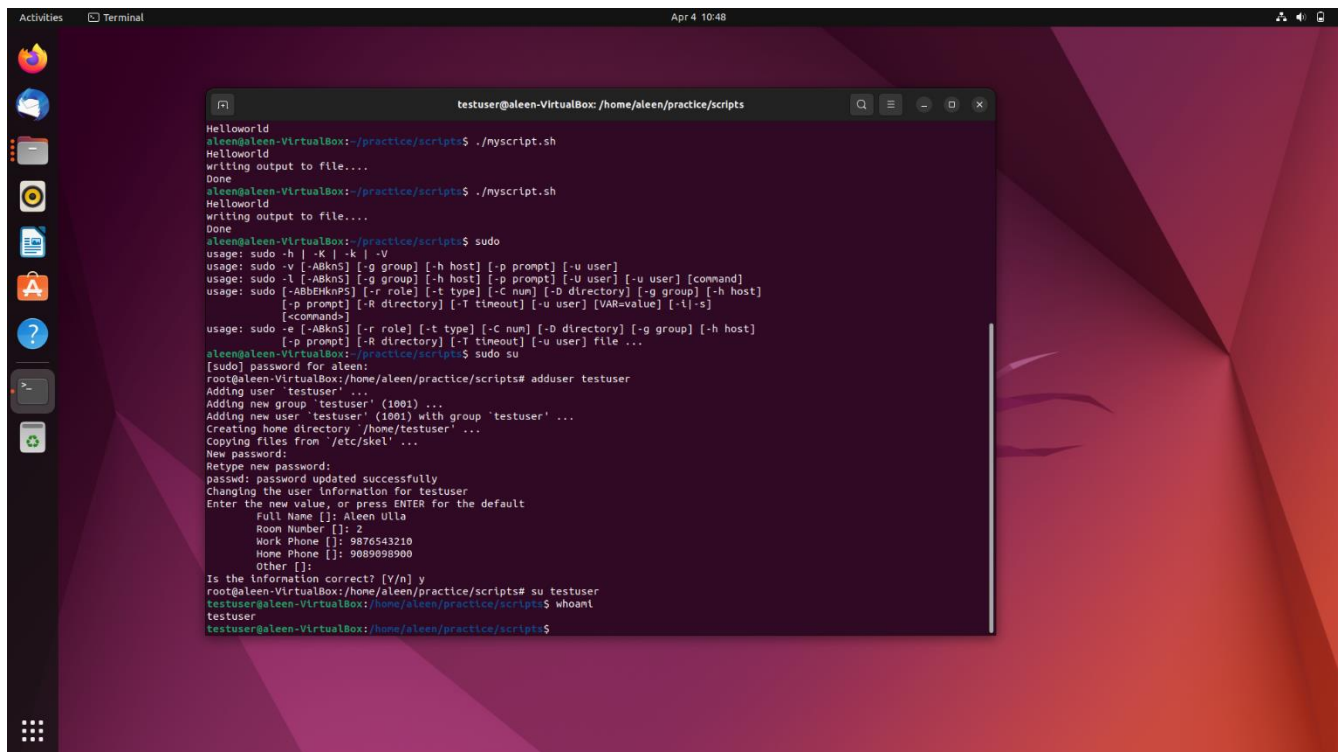
14. Switch to the "test user" account using the command "su testuser".



A terminal window titled 'testuser@aleen-VirtualBox: /home/aleen/practice/scripts' shows the process of switching to the 'testuser' account. The user 'aleen' is logged in. The terminal shows the execution of 'touch output.txt', 'myscript.sh', and 'sudo su'. The 'adduser testuser' command is used to create the new user. The terminal displays the following output:

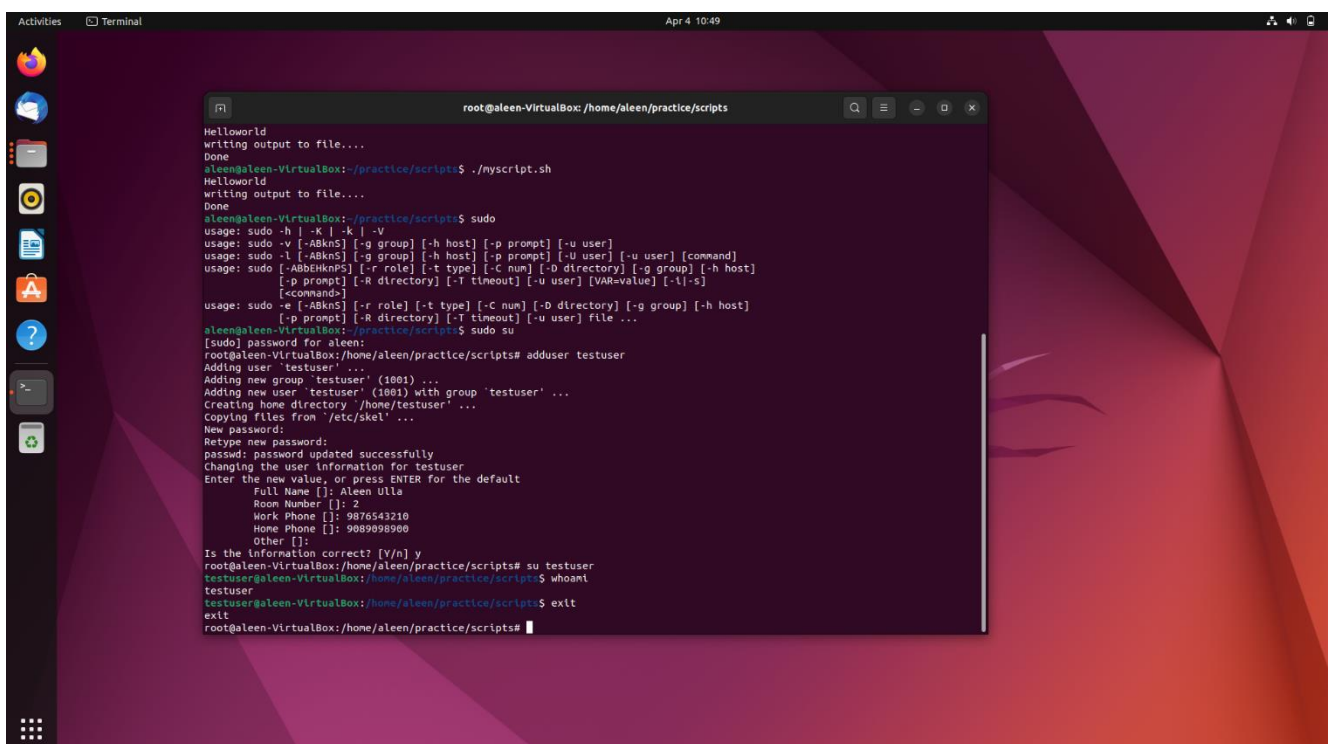
```
testuser@aleen-VirtualBox: /home/aleen/practice/scripts
aleen@aleen-VirtualBox: ~/practice/scripts$ touch output.txt
aleen@aleen-VirtualBox: ~/practice/scripts$ ./myscript.sh
Helloworld
aleen@aleen-VirtualBox: ~/practice/scripts$ ./myscript.sh
Helloworld
writing output to file....
Done
aleen@aleen-VirtualBox: ~/practice/scripts$ ./myscript.sh
Helloworld
writing output to file....
Done
aleen@aleen-VirtualBox: ~/practice/scripts$ sudo
usage: sudo -h | -K | -k | -V
usage: sudo -v [-ABKnS] [-g group] [-h host] [-p prompt] [-u user]
usage: sudo -l [-ABKnS] [-g group] [-h host] [-p prompt] [-u user] [-u user] [command]
usage: sudo [-ABbEHknPS] [-r role] [-t type] [-C num] [-D directory] [-g group] [-h host]
[-p prompt] [-R directory] [-T timeout] [-u user] [VAR=value] [-i|-s]
[command]
usage: sudo -e [-ABKnS] [-r role] [-t type] [-C num] [-D directory] [-g group] [-h host]
[-p prompt] [-R directory] [-T timeout] [-u user] file ...
aleen@aleen-VirtualBox: ~/practice/scripts$ sudo su
[sudo] password for aleen:
root@aleen-VirtualBox: /home/aleen/practice/scripts# 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:
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 []: Aleen Ulla
Room Number []: 2
Work Phone []: 9876543210
Home Phone []: 9089098900
Other []:
Is the information correct? [Y/n] y
root@aleen-VirtualBox: /home/aleen/practice/scripts# su testuser
testuser@aleen-VirtualBox: /home/aleen/practice/scripts$
```

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

A terminal window titled 'testuser@aleen-VirtualBox: /home/aleen/practice/scripts' shows the execution of a script. The script first runs 'Helloworld' and 'myscript.sh' twice. Then, it uses 'sudo' to run 'adduser testuser'. The user creation process is shown with prompts for full name, room number, work phone, home phone, and other details. After confirming the information, the user switches to 'testuser' using 'su testuser'. Finally, the 'whoami' command is run, confirming the user is 'testuser'.

```
testuser@aleen-VirtualBox: /home/aleen/practice/scripts
Helloworld
aleen@aleen-VirtualBox: ~/practice/scripts$ ./myscript.sh
Helloworld
writing output to file....
Done
aleen@aleen-VirtualBox: ~/practice/scripts$ ./myscript.sh
Helloworld
writing output to file....
Done
aleen@aleen-VirtualBox: ~/practice/scripts$ sudo
usage: sudo -h | -K | -k | -V
usage: sudo -v [-ABkns] [-g group] [-h host] [-p prompt] [-u user]
usage: sudo -l [-ABkns] [-g group] [-h host] [-p prompt] [-u user] [-u user] [command]
usage: sudo [-ABbEknPS] [-r role] [-t type] [-C num] [-D directory] [-g group] [-h host]
[-p prompt] [-R directory] [-T timeout] [-u user] [VAR=value] [-i|-s]
[command]
usage: sudo -e [-ABkns] [-r role] [-t type] [-C num] [-D directory] [-g group] [-h host]
[-p prompt] [-R directory] [-T timeout] [-u user] file ...
aleen@aleen-VirtualBox: ~/practice/scripts$ sudo su
[sudo] password for aleen:
root@aleen-VirtualBox: /home/aleen/practice/scripts# 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:
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 []: Aleen Ulla
    Room Number []: 2
    Work Phone []: 9876543210
    Home Phone []: 9089098900
    Other []:
Is the information correct? [Y/n] y
root@aleen-VirtualBox: /home/aleen/practice/scripts# su testuser
testuser@aleen-VirtualBox: /home/aleen/practice/scripts$ whoami
testuser
testuser@aleen-VirtualBox: /home/aleen/practice/scripts$
```

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

This terminal window shows the continuation of the previous session. The user is still 'testuser' in the same directory. They run 'whoami' again, then 'exit' to return to the root user. The prompt changes from 'testuser@aleen-VirtualBox' to 'root@aleen-VirtualBox'.

```
root@aleen-VirtualBox: /home/aleen/practice/scripts
Helloworld
writing output to file....
Done
aleen@aleen-VirtualBox: ~/practice/scripts$ ./myscript.sh
Helloworld
writing output to file....
Done
aleen@aleen-VirtualBox: ~/practice/scripts$ sudo
usage: sudo -h | -K | -k | -V
usage: sudo -v [-ABkns] [-g group] [-h host] [-p prompt] [-u user]
usage: sudo -l [-ABkns] [-g group] [-h host] [-p prompt] [-u user] [-u user] [command]
usage: sudo [-ABbEknPS] [-r role] [-t type] [-C num] [-D directory] [-g group] [-h host]
[-p prompt] [-R directory] [-T timeout] [-u user] [VAR=value] [-i|-s]
[command]
usage: sudo -e [-ABkns] [-r role] [-t type] [-C num] [-D directory] [-g group] [-h host]
[-p prompt] [-R directory] [-T timeout] [-u user] file ...
aleen@aleen-VirtualBox: ~/practice/scripts$ sudo su
[sudo] password for aleen:
root@aleen-VirtualBox: /home/aleen/practice/scripts# 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:
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 []: Aleen Ulla
    Room Number []: 2
    Work Phone []: 9876543210
    Home Phone []: 9089098900
    Other []:
Is the information correct? [Y/n] y
root@aleen-VirtualBox: /home/aleen/practice/scripts# su testuser
testuser@aleen-VirtualBox: /home/aleen/practice/scripts$ whoami
testuser
testuser@aleen-VirtualBox: /home/aleen/practice/scripts$ exit
exit
root@aleen-VirtualBox: /home/aleen/practice/scripts#
```