

Homework on Lab 1

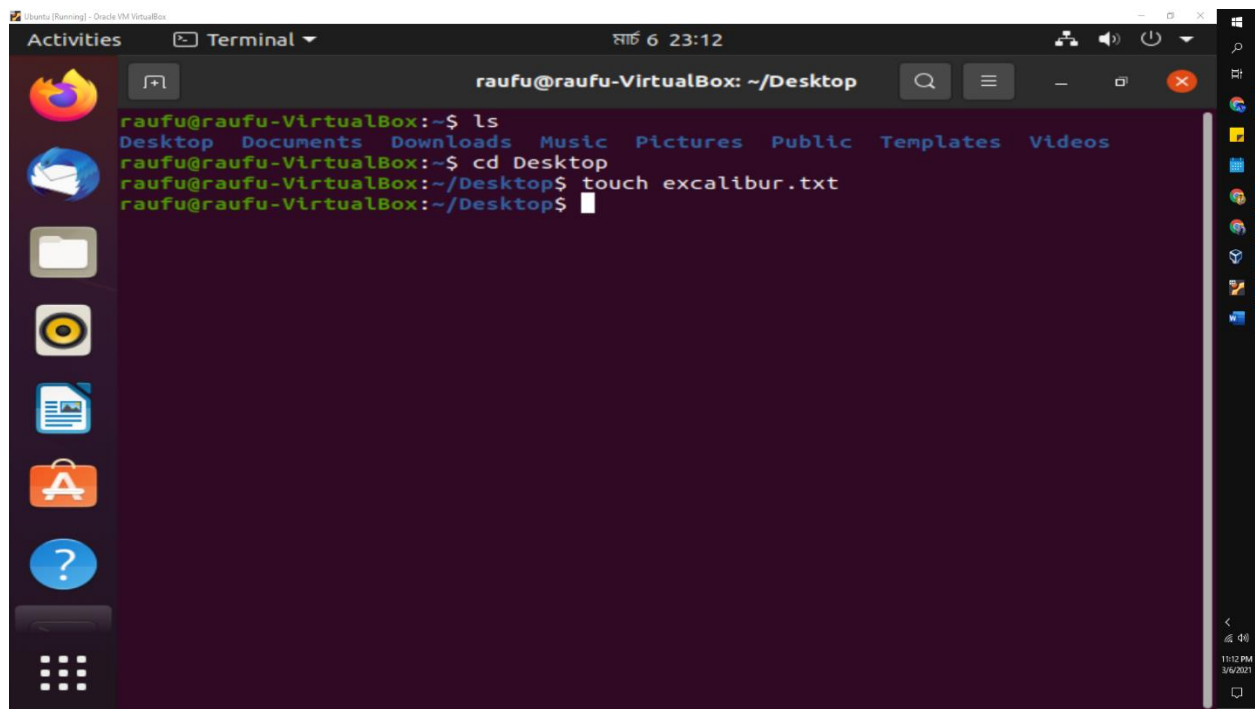
Task 1

Create a file `excalibur.txt` in Desktop

`ls`

`cd Desktop`

`touch excalibur.txt`



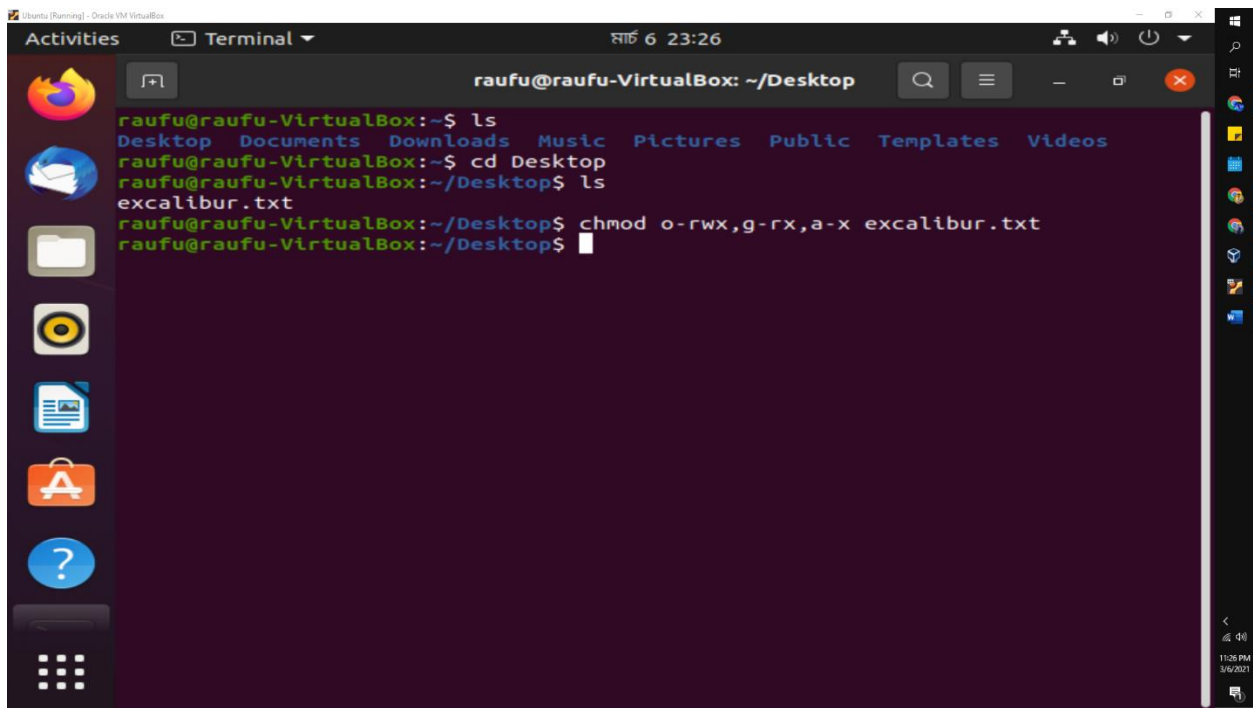
The screenshot shows a terminal window titled "Ubuntu (Running) - Oracle VM VirtualBox" with the current directory set to `~/Desktop`. The user `raufu` has executed the following commands:

```
raufu@raufu-VirtualBox:~$ ls
Desktop  Documents  Downloads  Music  Pictures  Public  Templates  Videos
raufu@raufu-VirtualBox:~$ cd Desktop
raufu@raufu-VirtualBox:~/Desktop$ touch excalibur.txt
raufu@raufu-VirtualBox:~/Desktop$
```

The terminal output shows the directory listing after `ls` and the successful execution of `touch excalibur.txt`. The desktop environment is visible in the background, showing various application icons on the left and system status on the right.

Change the permission of the file to owner: read, write and execute, group: read and execute and for other users execute only

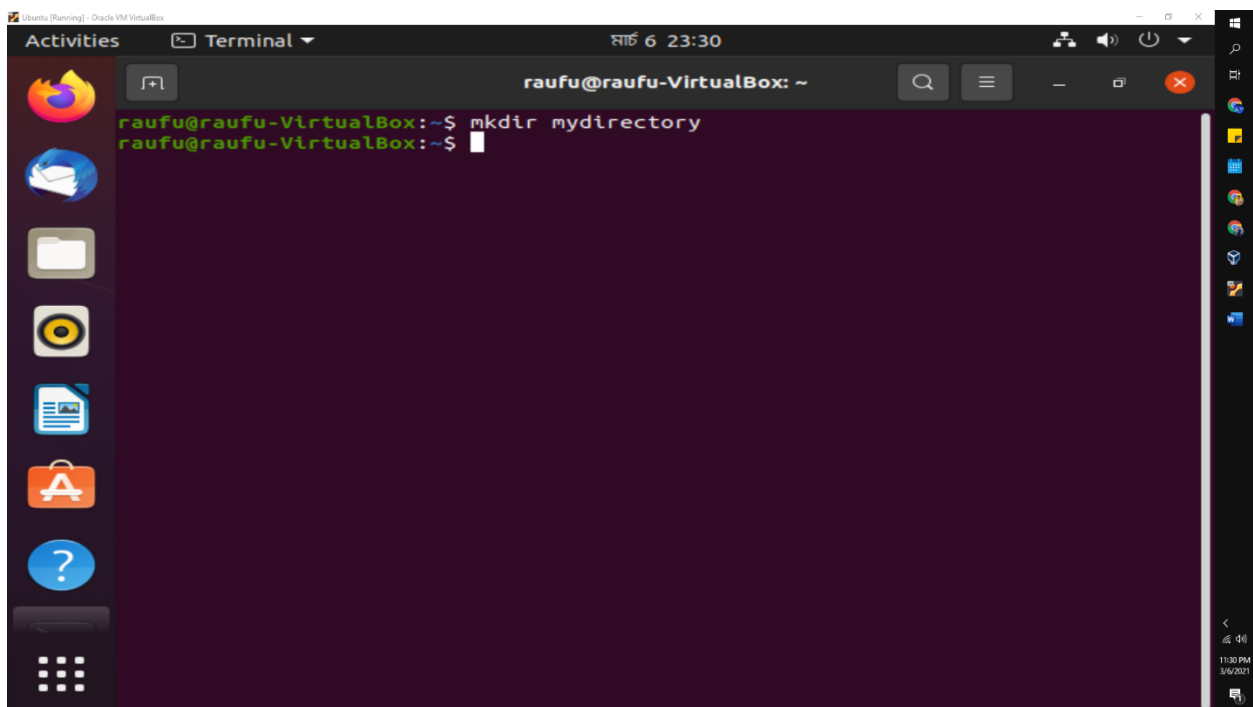
`chmod o-rwx,g-rx,a-x excalibur.txt`

A screenshot of a Linux terminal window titled 'Ubuntu (Running) - Oracle VM VirtualBox'. The terminal shows a user named 'raufu' at a prompt 'raufu@raufu-VirtualBox: ~/Desktop'. The user enters 'ls' and sees a list of directories: Desktop, Documents, Downloads, Music, Pictures, Public, Templates, Videos. Then they enter 'cd Desktop' and 'ls' again, showing 'excalibur.txt'. Finally, they enter 'chmod o-rwx,g-rx,a-x excalibur.txt' and the command is executed successfully. The terminal has a dark purple background and a sidebar with application icons on the left.

```
raufu@raufu-VirtualBox:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
raufu@raufu-VirtualBox:~$ cd Desktop
raufu@raufu-VirtualBox:~/Desktop$ ls
excalibur.txt
raufu@raufu-VirtualBox:~/Desktop$ chmod o-rwx,g-rx,a-x excalibur.txt
raufu@raufu-VirtualBox:~/Desktop$
```

Create a directory named mydirectory

`mkdir mydirectory`

A screenshot of a Linux terminal window titled 'Ubuntu (Running) - Oracle VM VirtualBox'. The terminal shows a user named 'raufu' at a prompt 'raufu@raufu-VirtualBox: ~'. The user enters 'mkdir mydirectory' and the command is executed successfully. The terminal has a dark purple background and a sidebar with application icons on the left.

```
raufu@raufu-VirtualBox:~$ mkdir mydirectory
raufu@raufu-VirtualBox:~$
```

```
cp /home/Raufu/Desktop/excalibur.txt /home/Raufu/mydirectory
```

A screenshot of a Linux terminal window. The title bar at the top reads "Ubuntu (Running) - Oracle VM VirtualBox". The terminal's title bar says "Terminal". The prompt is "raufu@raufu-VirtualBox: ~". The command entered is "cp /home/raufu/Desktop/excalibur.txt /home/raufu/mydi". The output shows the file has been copied to the directory. The terminal has a dark background with green text. On the left, there is a vertical dock with icons for Firefox, a file manager, and other applications. On the right, there is a system status bar showing the time as 1:45 PM on 3/9/2021.

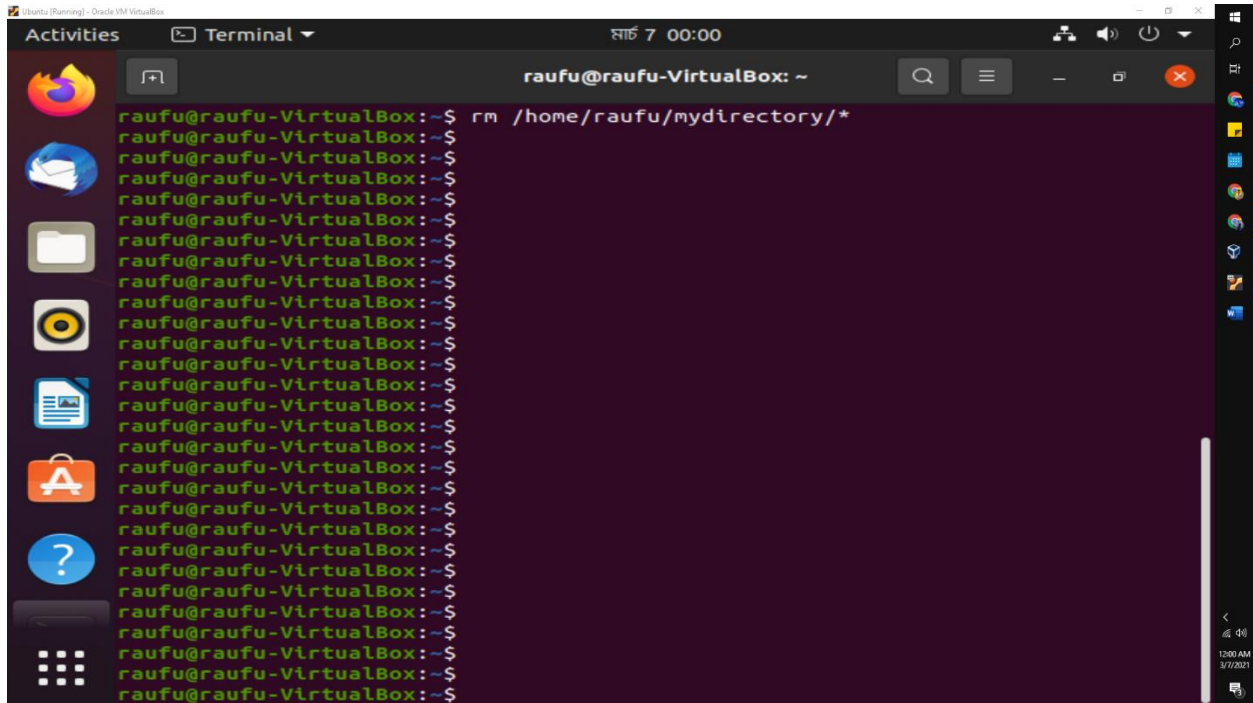
```
rm /home/Raufu/Desktop/excalibur.txt
```

The screenshot shows a Linux desktop environment. At the top, a dark purple bar displays the date and time: "Sat 6 23:55". Below this, a terminal window is open, showing the command `rm /home/raufu/Desktop/excalibur.txt` being executed. The terminal output shows the command being run multiple times, with the prompt `raufu@raufu-VirtualBox: ~$` appearing before each command. The desktop background is dark purple, and the left sidebar contains several application icons, including a web browser, a file manager, and a terminal. The right sidebar shows a vertical stack of application icons, including a file manager, a terminal, and a web browser. The bottom right corner of the screen shows a system clock indicating the time is 11:55 PM on 3/6/2021.

Task 2

Delete all the files and folders from a directory

```
rm /home/Raufu/mydirectory/*
```

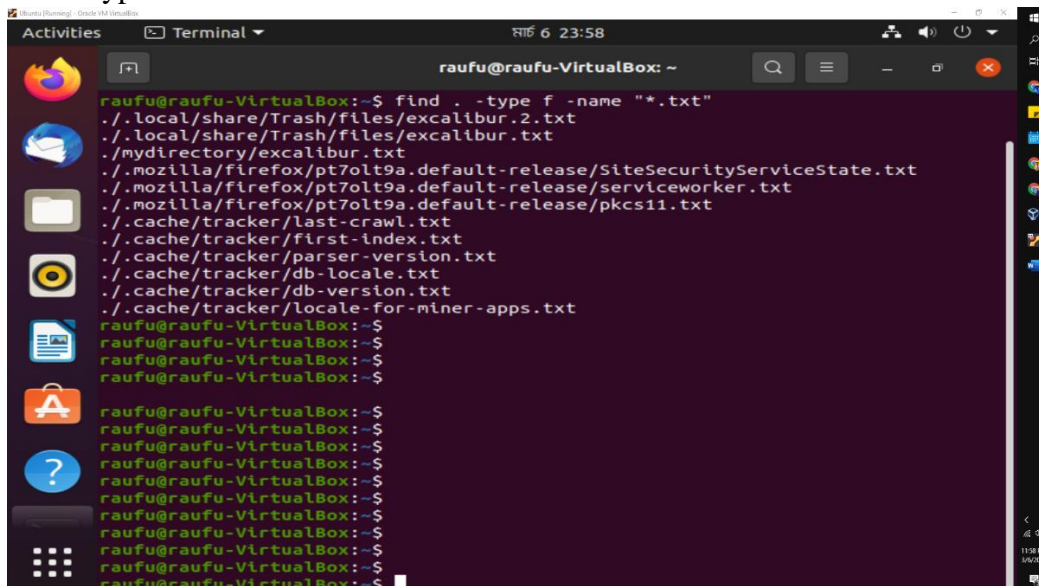


The screenshot shows a terminal window titled "Terminal" with the prompt "raufu@raufu-VirtualBox: ~". The command `rm /home/raufu/mydirectory/*` has been entered and executed. The terminal output shows the prompt repeated 15 times, indicating that the command was executed successfully without any errors or warnings. The left sidebar of the desktop environment shows various application icons, and the top status bar indicates the time is 7:00:00.

Task 3

Find all the .txt files in a folder

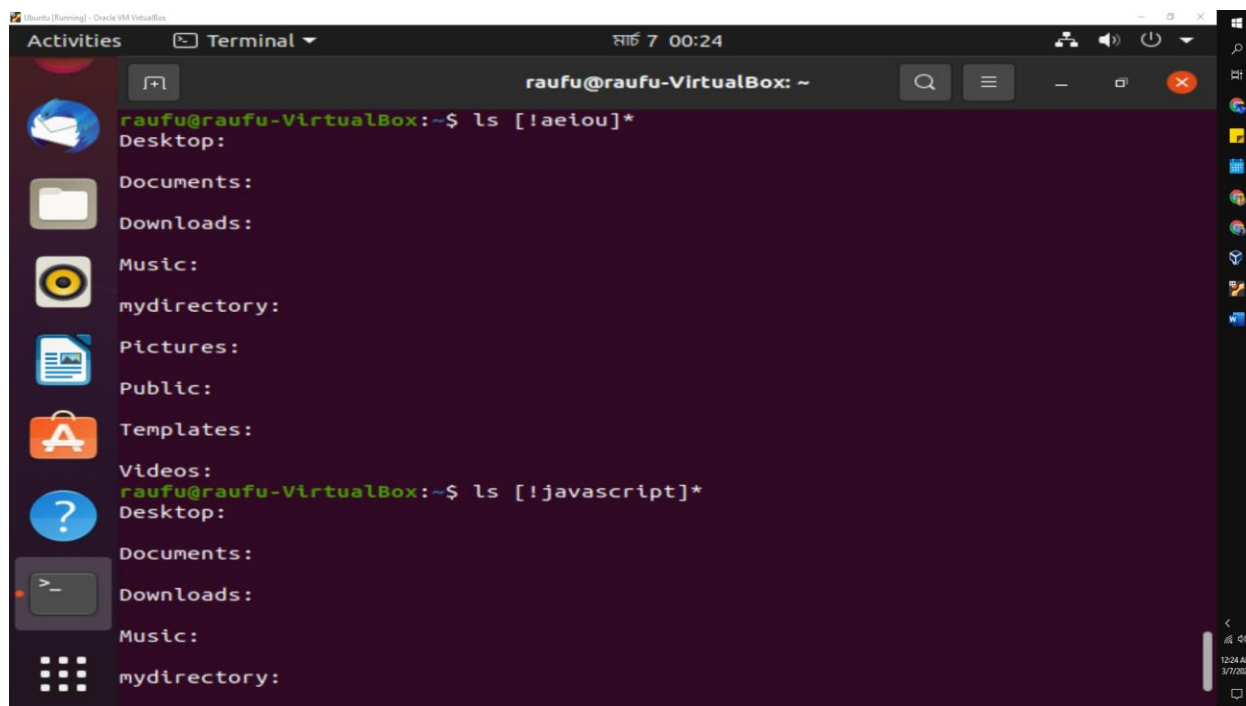
```
find . -type f -name "*.txt"
```



The screenshot shows a terminal window titled "Terminal" with the prompt "raufu@raufu-VirtualBox: ~". The command `find . -type f -name "*.txt"` has been entered and executed. The terminal output lists 12 .txt files: `./local/share/Trash/files/excalibur.2.txt`, `./local/share/Trash/files/excalibur.txt`, `./mydirectory/excalibur.txt`, `./mozilla/firefox/pt70lt9a.default-release/SiteSecurityServiceState.txt`, `./mozilla/firefox/pt70lt9a.default-release/serviceworker.txt`, `./mozilla/firefox/pt70lt9a.default-release/pkcs11.txt`, `./cache/tracker/last-crawl.txt`, `./cache/tracker/first-index.txt`, `./cache/tracker/parser-version.txt`, `./cache/tracker/db-locale.txt`, `./cache/tracker/db-version.txt`, and `./cache/tracker/locale-for-miner-apps.txt`. The prompt is repeated 15 times after the output, indicating the command was executed successfully. The left sidebar of the desktop environment shows various application icons, and the top status bar indicates the time is 6:23:58.

Check for a given string in multiple files (N.B. Choose a random string of your choice)

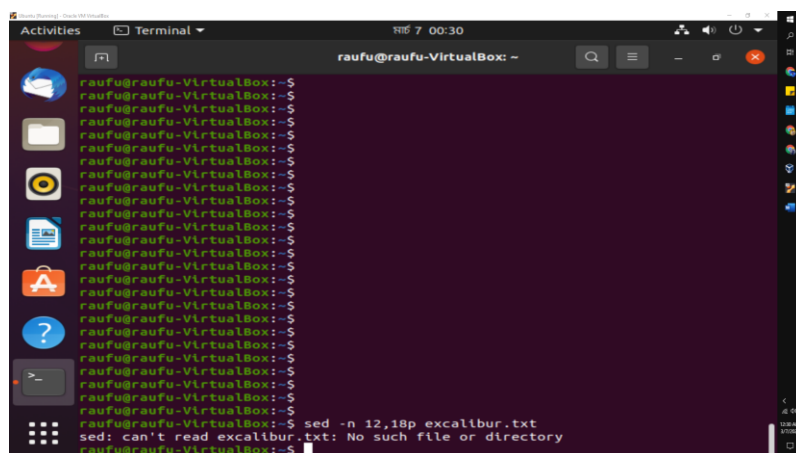
```
ls [!aeiou]*
```



Task 5

Show only lines 12-18 of a .txt file

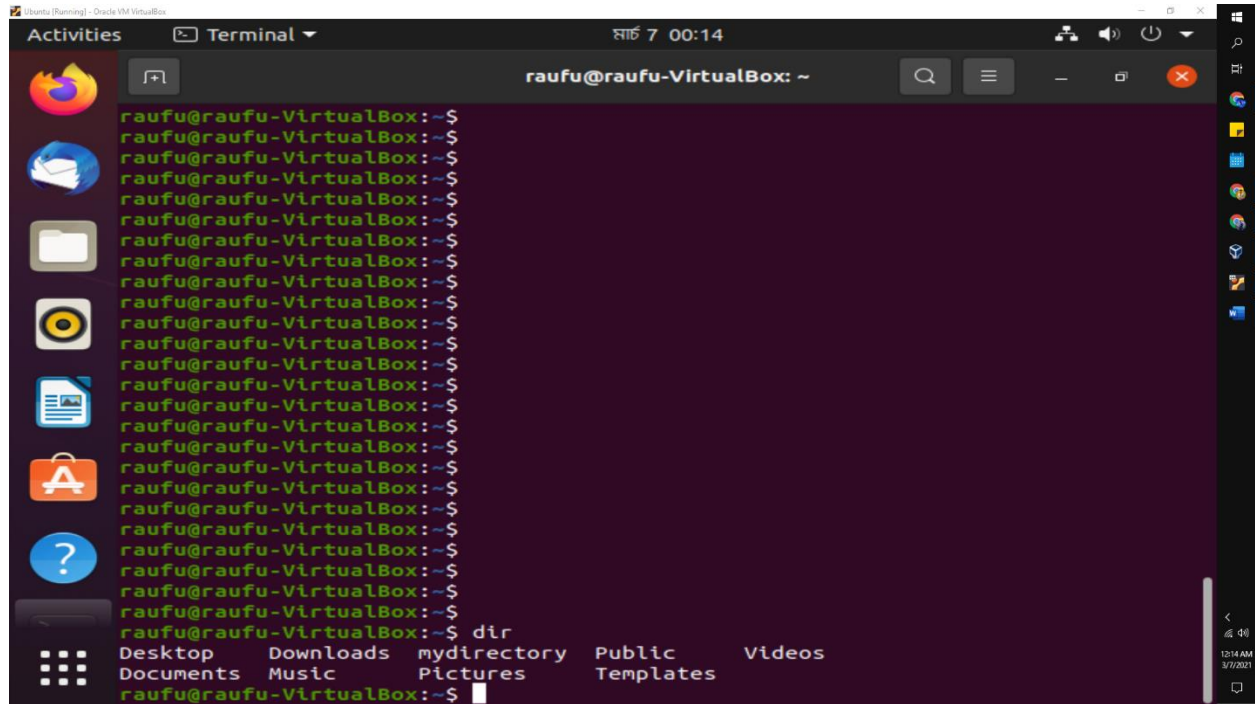
Sed -n 12,18p excalibur.txt



Task 6

Show all the files in a directory

dir



The screenshot shows a terminal window titled "Ubuntu [Running] - Oracle VM VirtualBox" with the username "raufu" and host "raufu-VirtualBox". The terminal displays a series of 18 empty command prompts, followed by the command "dir". The output of the command is a directory listing:

```
Desktop  Downloads  mydirectory  Public  Videos
Documents Music      Pictures    Templates
```

The terminal window includes a sidebar with application icons (Firefox, Mail, Files, etc.) and a top bar with system status icons (network, volume, power) and the date/time "7 00:14".