

LINUX LAB ASSIGNMENT-5

Submitted By

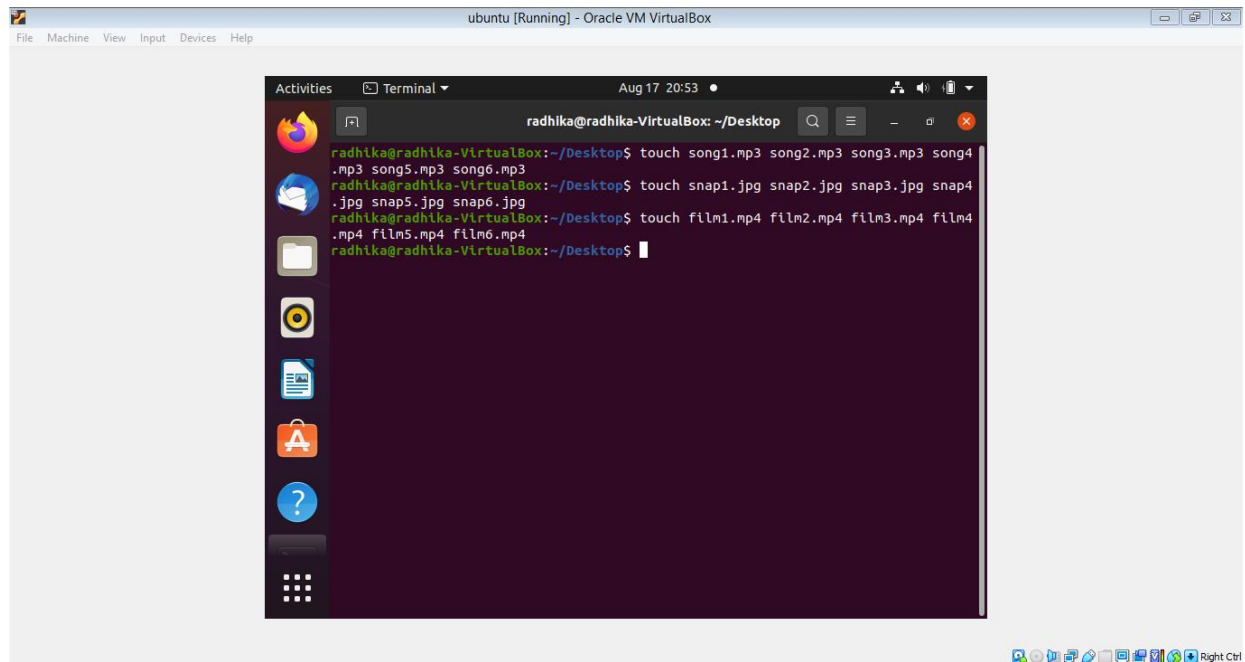
Radhika C

RMCA B Batch

Roll no:13

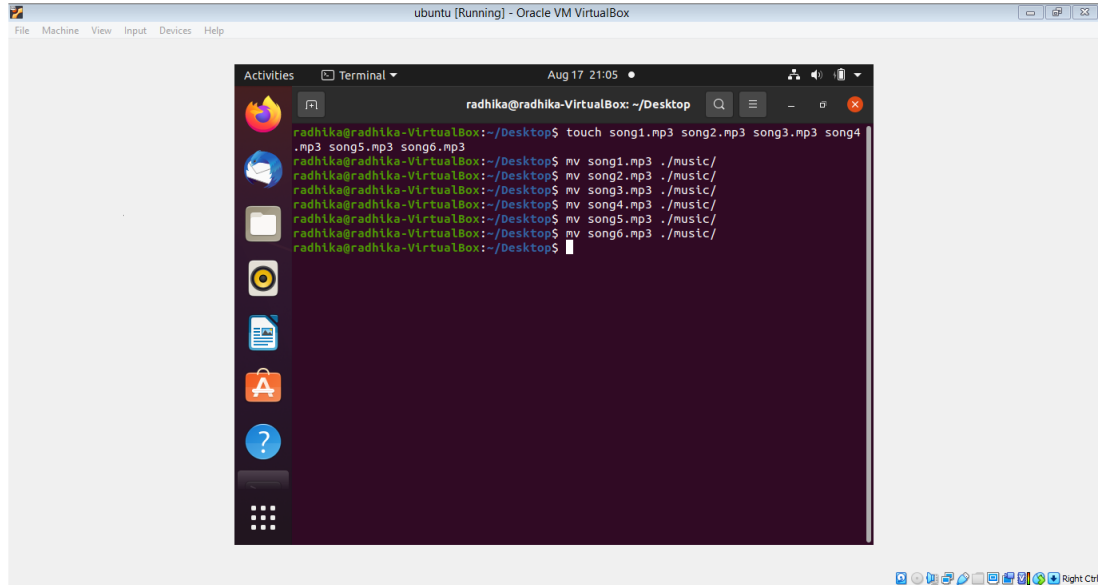
Lab Assignment Managing Files, Creating Users and Groups Using Command-line tools

- 1.a. Create six files with name of the form songX.mp3
- b. Create six files with name of the form snapX.mp3
- c. Create six files with name of the form filmX.mp3 (In each set, replace X with the numbers 1 through 6)

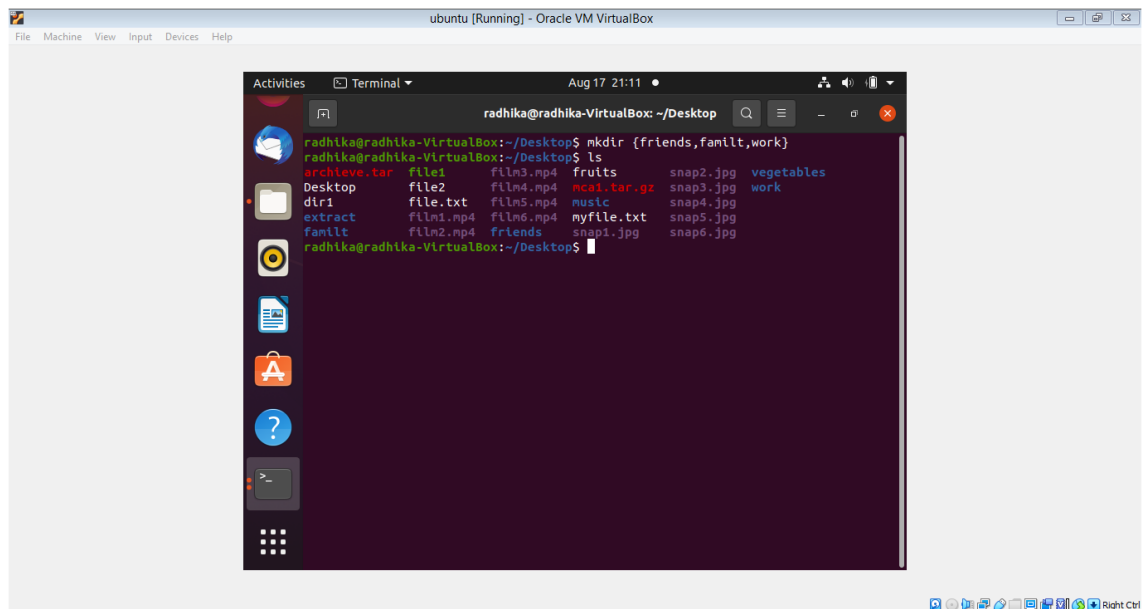


```
radhika@radhika-VirtualBox: ~/Desktop
radhika@radhika-VirtualBox:~/Desktop$ touch song1.mp3 song2.mp3 song3.mp3 song4
.mp3 song5.mp3 song6.mp3
radhika@radhika-VirtualBox:~/Desktop$ touch snap1.jpg snap2.jpg snap3.jpg snap4
.jpg snap5.jpg snap6.jpg
radhika@radhika-VirtualBox:~/Desktop$ touch film1.mp4 film2.mp4 film3.mp4 film4
.mp4 film5.mp4 film6.mp4
radhika@radhika-VirtualBox:~/Desktop$
```

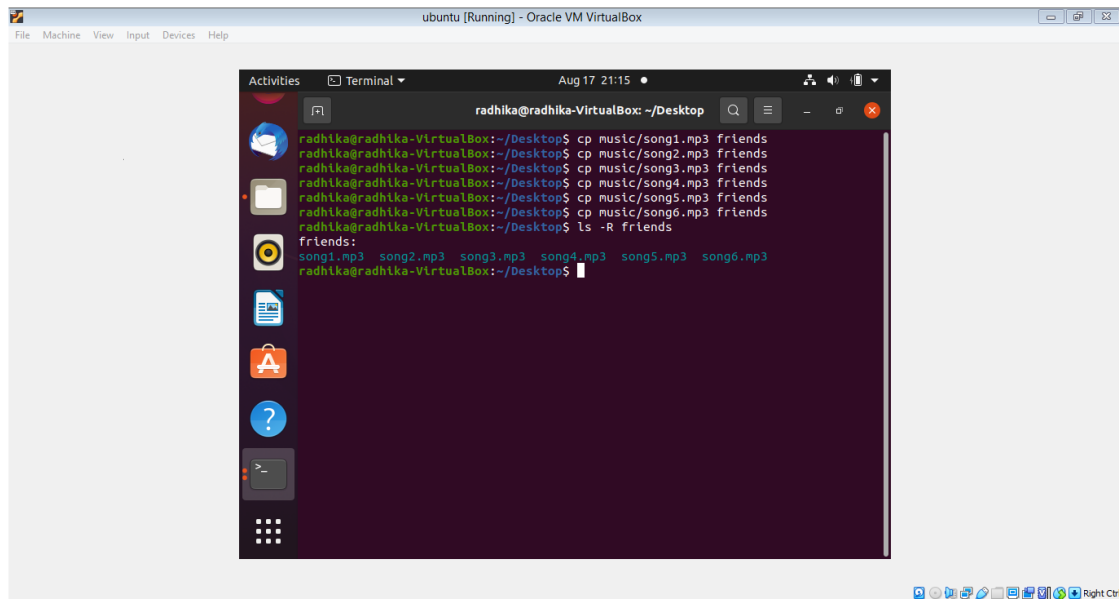
2. From your home directory, move the song files into your music subdirectory, the snapshot files into your pictures subdirectory, and the movie files into videos subdirectory.



3. In your home directory, create three subdirectories for organizing your files. Call these directories friends, family, and work. Create all three with one command



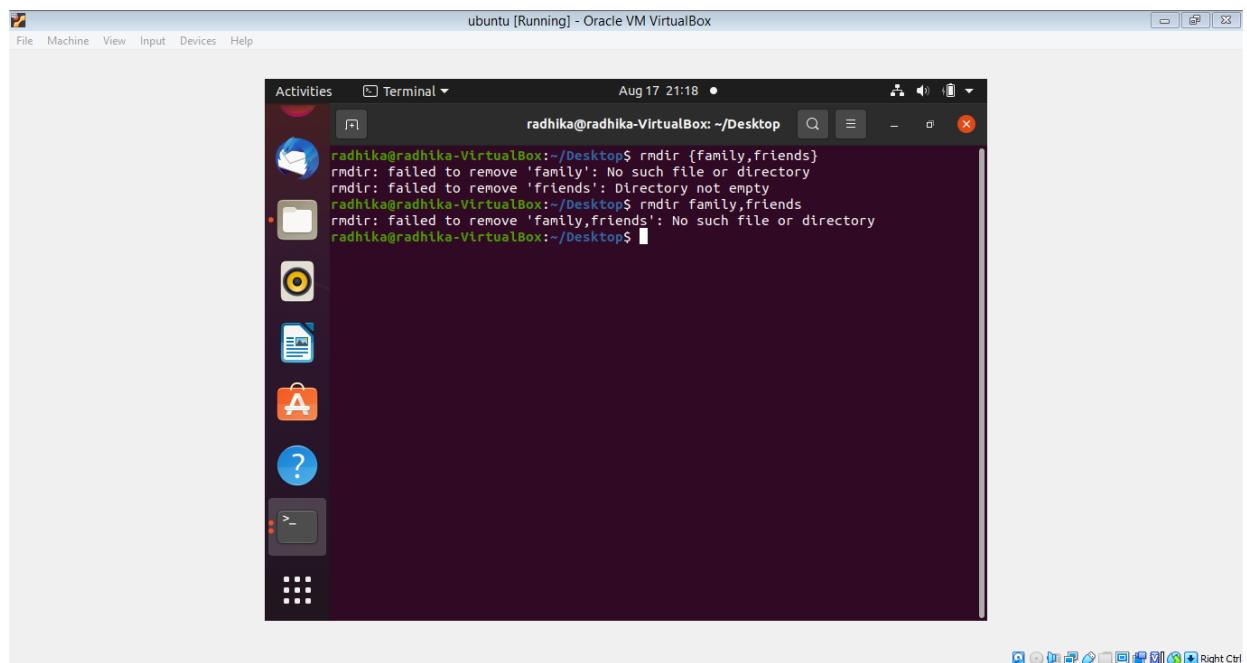
4. Copy song files to the friends folder and snap files to family folder



The screenshot shows a terminal window titled 'radhika@radhika-VirtualBox: ~/Desktop'. The user has executed several 'cp' commands to copy song files from a 'music' directory to a 'friends' directory. The files copied are song1.mp3, song2.mp3, song3.mp3, song4.mp3, song5.mp3, and song6.mp3. After the copying, the user runs 'ls -R friends' to list the contents of the 'friends' directory, which shows the six song files. The terminal window is part of an Ubuntu VM running in Oracle VM VirtualBox.

```
radhika@radhika-VirtualBox: ~/Desktop
radhika@radhika-VirtualBox:~/Desktop$ cp music/song1.mp3 friends
radhika@radhika-VirtualBox:~/Desktop$ cp music/song2.mp3 friends
radhika@radhika-VirtualBox:~/Desktop$ cp music/song3.mp3 friends
radhika@radhika-VirtualBox:~/Desktop$ cp music/song4.mp3 friends
radhika@radhika-VirtualBox:~/Desktop$ cp music/song5.mp3 friends
radhika@radhika-VirtualBox:~/Desktop$ cp music/song6.mp3 friends
radhika@radhika-VirtualBox:~/Desktop$ ls -R friends
friends:
song1.mp3 song2.mp3 song3.mp3 song4.mp3 song5.mp3 song6.mp3
radhika@radhika-VirtualBox:~/Desktop$
```

5. Attempt to delete both family and friends projects with a single rmdir command



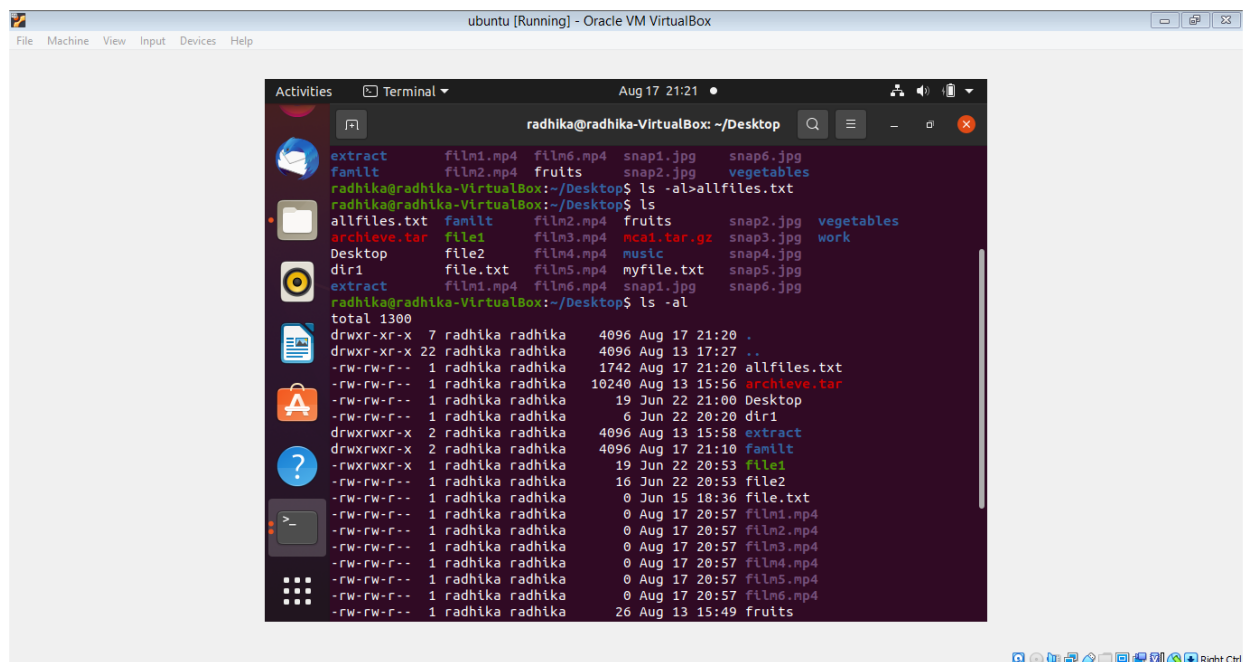
The screenshot shows a terminal window titled 'radhika@radhika-VirtualBox: ~/Desktop'. The user attempts to delete the 'family' and 'friends' directories using the 'rmdir' command. The first attempt, 'rmdir {family,friends}', fails with the message 'rmdir: failed to remove 'family': No such file or directory'. The second attempt, 'rmdir family,friends', fails with the message 'rmdir: failed to remove 'friends': Directory not empty'. The third attempt, 'rmdir family,friends', fails with the message 'rmdir: failed to remove 'family,friends': No such file or directory'. The terminal window is part of an Ubuntu VM running in Oracle VM VirtualBox.

```
radhika@radhika-VirtualBox:~/Desktop$ rmdir {family,friends}
rmdir: failed to remove 'family': No such file or directory
rmdir: failed to remove 'friends': Directory not empty
radhika@radhika-VirtualBox:~/Desktop$ rmdir family,friends
rmdir: failed to remove 'family,friends': No such file or directory
radhika@radhika-VirtualBox:~/Desktop$
```

6. Use another command that will succeed in deleting both the family and friends folder.

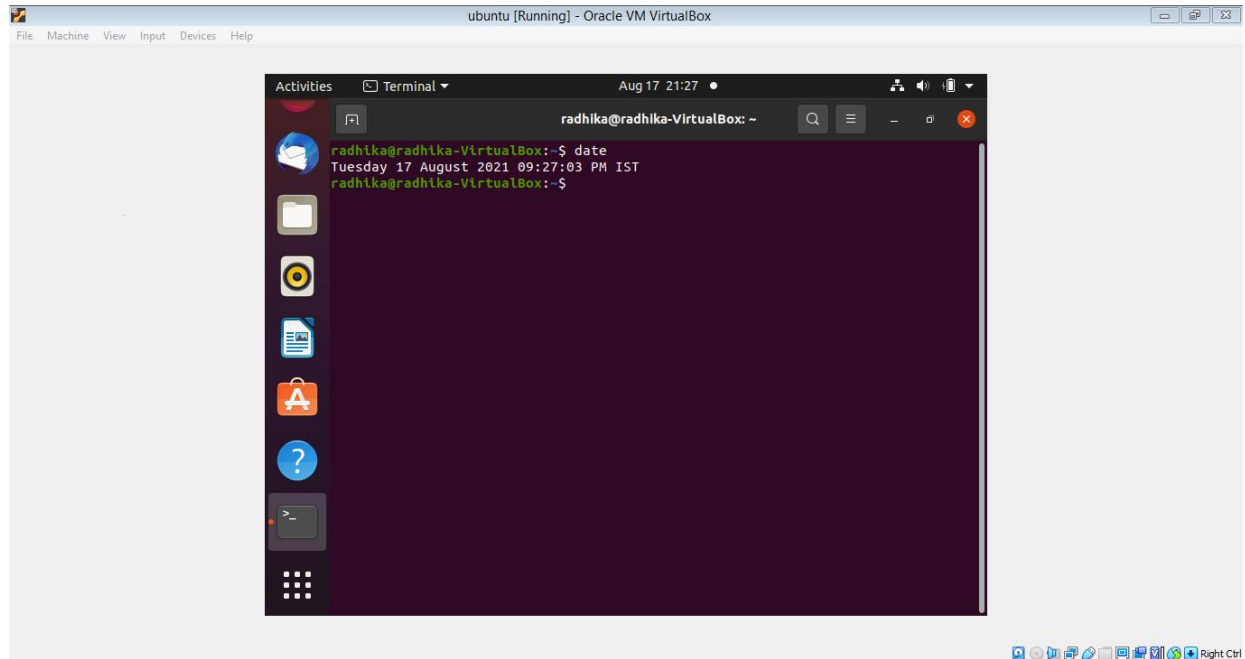
```
radhika@radhika-VirtualBox:~/Desktop$ rm -r family friends
rm: failed to remove 'family, friends': No such file or directory
radhika@radhika-VirtualBox:~/Desktop$ rm -r family friends
rm: cannot remove 'family': No such file or directory
radhika@radhika-VirtualBox:~/Desktop$ ls
archive.tar  file1      filn3.mp4  mca1.tar.gz  snap3.jpg  work
Desktop      file2      filn4.mp4  music         snap4.jpg
dir1         file.txt   filn5.mp4  myfile.txt    snap5.jpg
extract      filn1.mp4  filn6.mp4  snap1.jpg     snap6.jpg
familt       filn2.mp4  fruits     snap2.jpg     vegetables
radhika@radhika-VirtualBox:~/Desktop$
```

7. Redirect a long listing of all home directory files, including hidden, into a file named allfiles.txt. Confirm that the file contains the listing

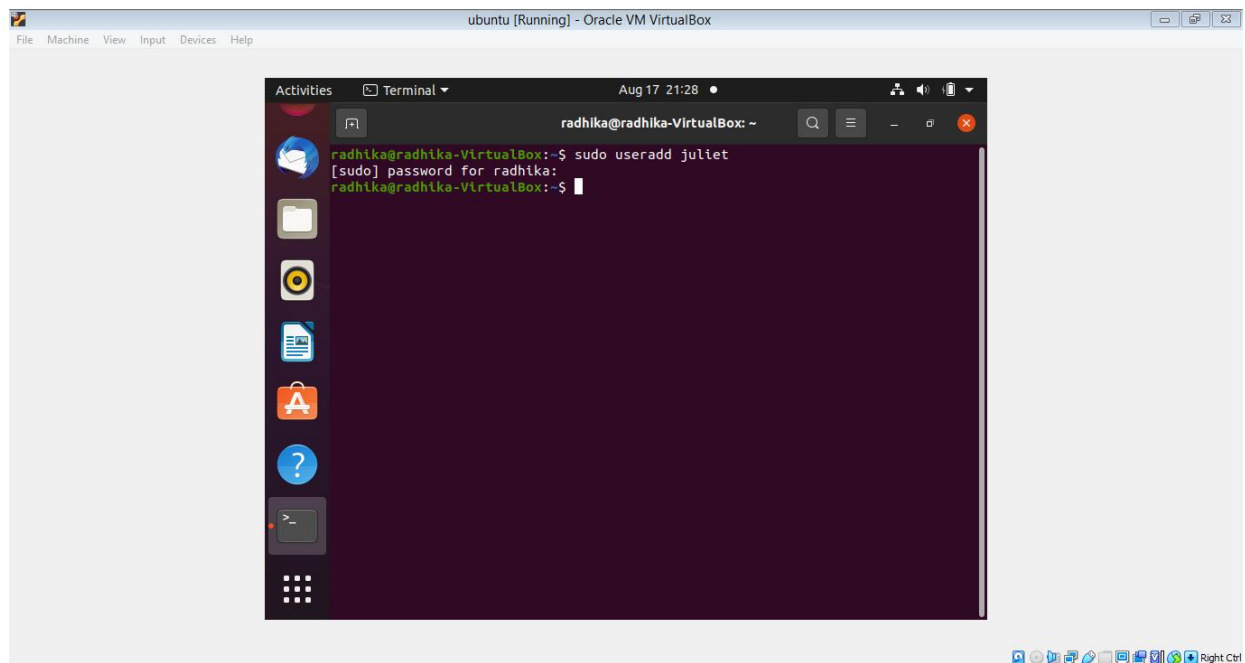


```
radhika@radhika-VirtualBox: ~/Desktop
radhika@radhika-VirtualBox:~/Desktop$ ls -al>allfiles.txt
radhika@radhika-VirtualBox:~/Desktop$ ls
allfiles.txt  familt    filn2.mp4  fruits     snap2.jpg  vegetables
archive.tar   file1     filn3.mp4  mca1.tar.gz snap3.jpg  work
Desktop       file2     filn4.mp4  music      snap4.jpg
dir1          file.txt  filn5.mp4  myfile.txt  snap5.jpg
extract       filn1.mp4 filn6.mp4  snap1.jpg  snap6.jpg
radhika@radhika-VirtualBox:~/Desktop$ ls -al
total 1300
drwxr-xr-x  7 radhika radhika  4096 Aug 17 21:20 .
drwxr-xr-x 22 radhika radhika  4096 Aug 13 17:27 ..
-rw-rw-r--  1 radhika radhika 1742 Aug 17 21:20 allfiles.txt
-rw-rw-r--  1 radhika radhika 10240 Aug 13 15:56 archive.tar
-rw-rw-r--  1 radhika radhika   19 Jun 22 21:00 Desktop
-rw-rw-r--  1 radhika radhika    6 Jun 22 20:20 dir1
drwxrwxr-x  2 radhika radhika  4096 Aug 13 15:58 extract
drwxrwxr-x  2 radhika radhika  4096 Aug 17 21:10 familt
-rwxrwxr-x  1 radhika radhika   19 Jun 22 20:53 file1
-rw-rw-r--  1 radhika radhika   16 Jun 22 20:53 file2
-rw-rw-r--  1 radhika radhika    0 Jun 15 18:36 file.txt
-rw-rw-r--  1 radhika radhika    0 Aug 17 20:57 filn1.mp4
-rw-rw-r--  1 radhika radhika    0 Aug 17 20:57 filn2.mp4
-rw-rw-r--  1 radhika radhika    0 Aug 17 20:57 filn3.mp4
-rw-rw-r--  1 radhika radhika    0 Aug 17 20:57 filn4.mp4
-rw-rw-r--  1 radhika radhika    0 Aug 17 20:57 filn5.mp4
-rw-rw-r--  1 radhika radhika    0 Aug 17 20:57 filn6.mp4
-rw-rw-r--  1 radhika radhika   26 Aug 13 15:49 fruits
```

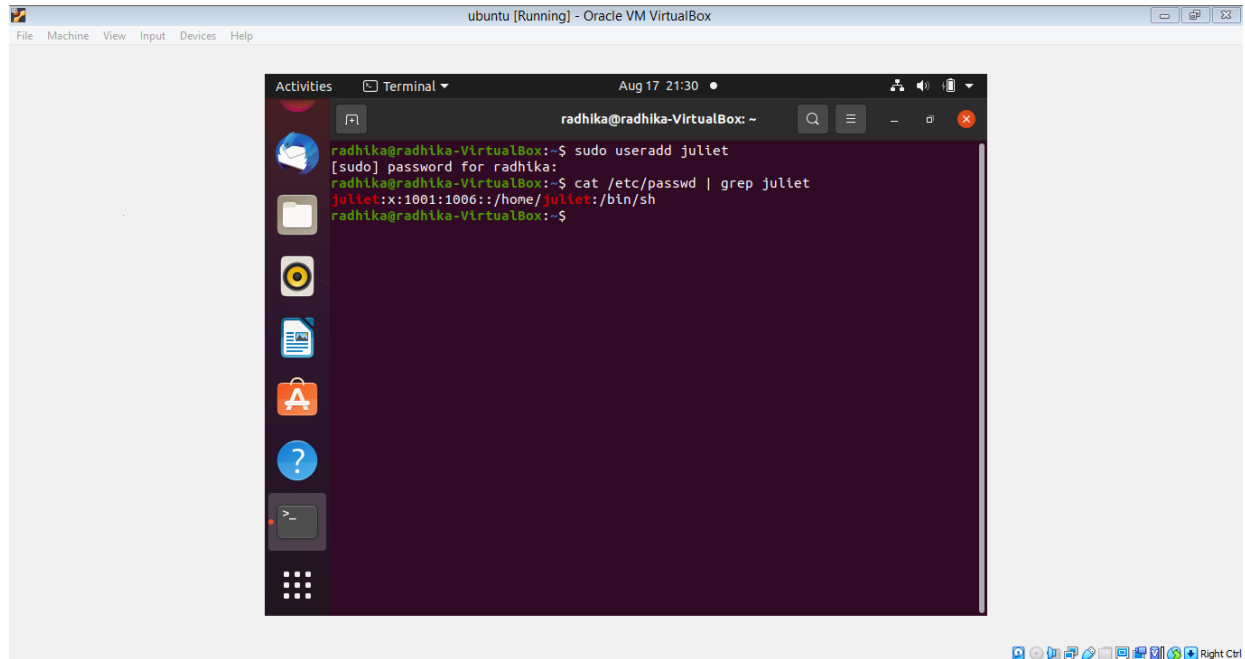
8. In the command window, display today's date with day of the week, month, date and year



9. Add the user Juliet



10. Confirm that Juliet has been added by examining the /etc/passwd file

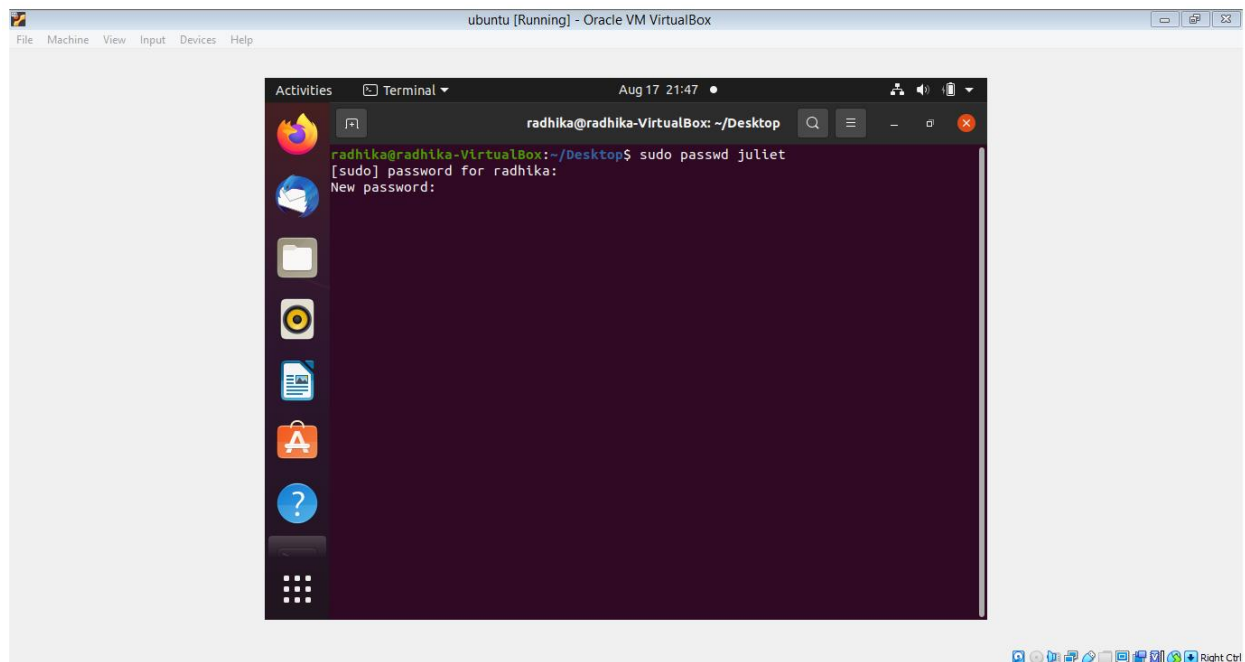


The screenshot shows a terminal window titled "radhika@radhika-VirtualBox: ~" with a search bar and window controls. The terminal output is as follows:

```
radhika@radhika-VirtualBox:~$ sudo useradd juliet
[sudo] password for radhika:
radhika@radhika-VirtualBox:~$ cat /etc/passwd | grep juliet
juliet:x:1001:1006:~/home/juliet:/bin/sh
radhika@radhika-VirtualBox:~$
```

The background shows the Ubuntu desktop environment with a sidebar of application icons and a top menu bar with "File", "Machine", "View", "Input", "Devices", and "Help".

11. Use the passwd command to initialize Juliet's password



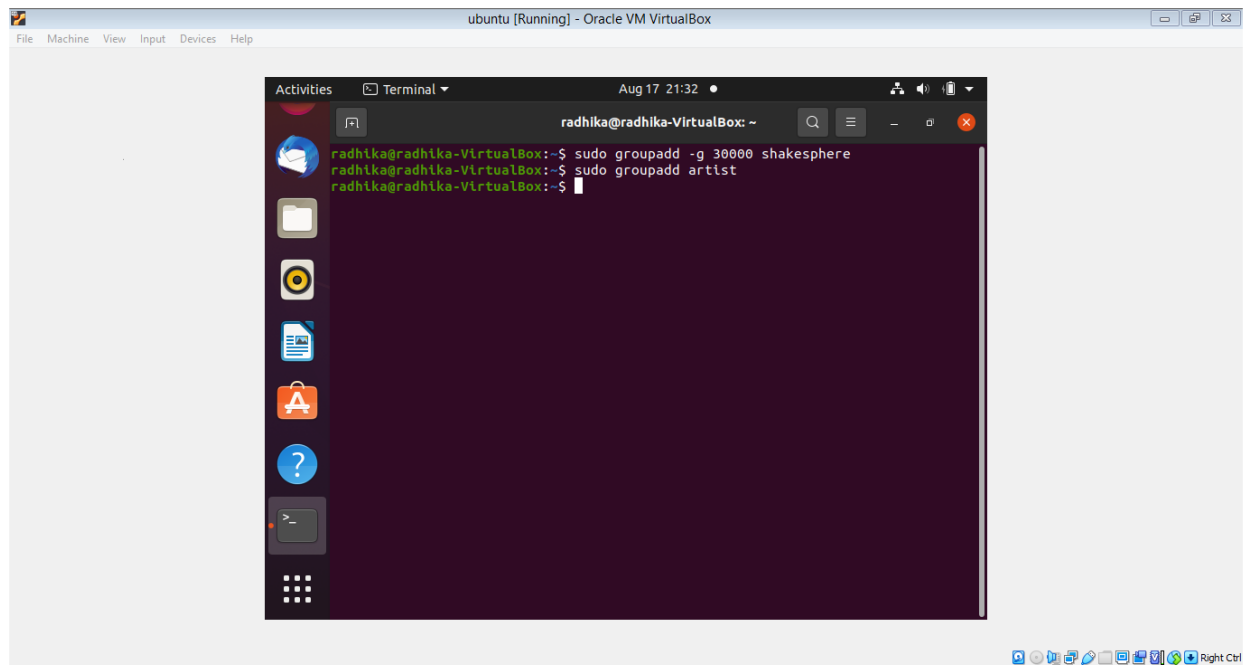
The screenshot shows a terminal window titled "radhika@radhika-VirtualBox: ~/Desktop" with a search bar and window controls. The terminal output is as follows:

```
radhika@radhika-VirtualBox:~/Desktop$ sudo passwd juliet
[sudo] password for radhika:
New password:
```

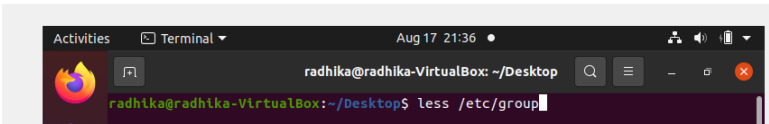
The background shows the Ubuntu desktop environment with a sidebar of application icons and a top menu bar with "File", "Machine", "View", "Input", "Devices", and "Help".

12.Create a supplementary group called Shakespeare with a group id of 30000

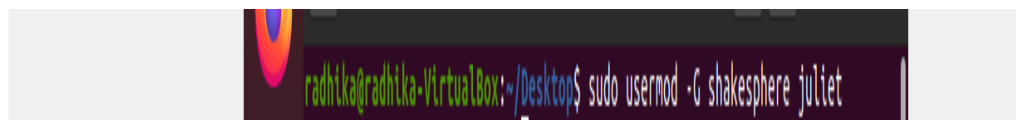
13.Create a supplementary group called artists.



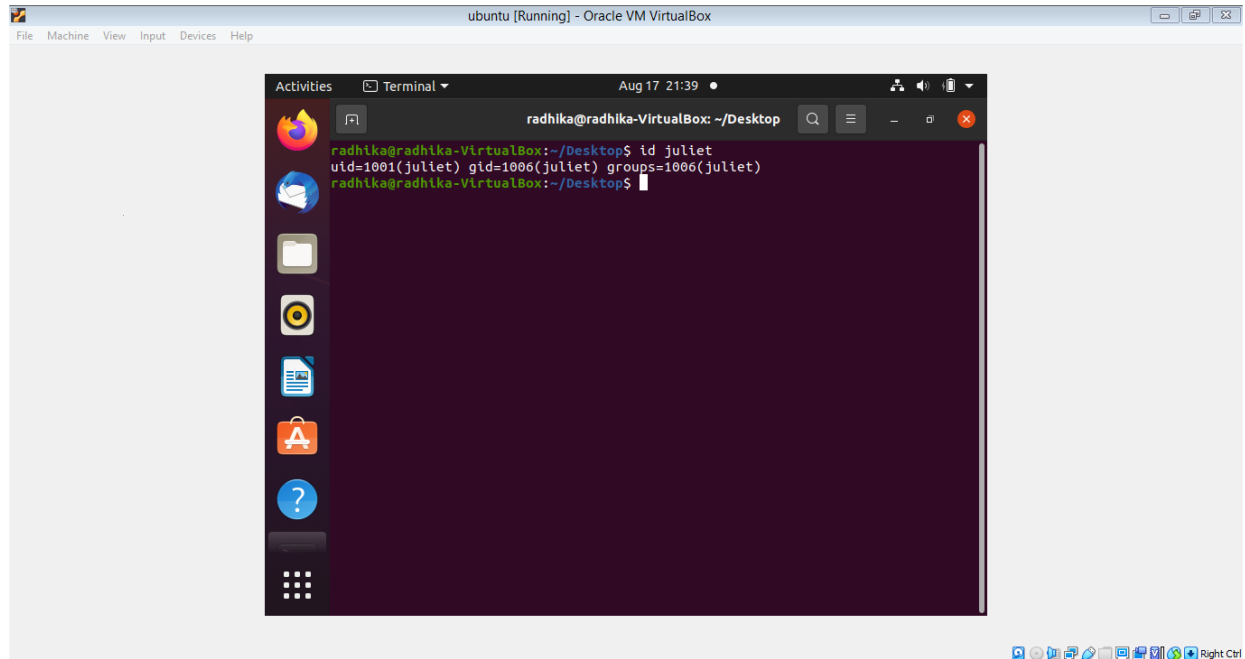
14. Confirm that Shakespeare and artists have been added by examining the `/etc/group` file.



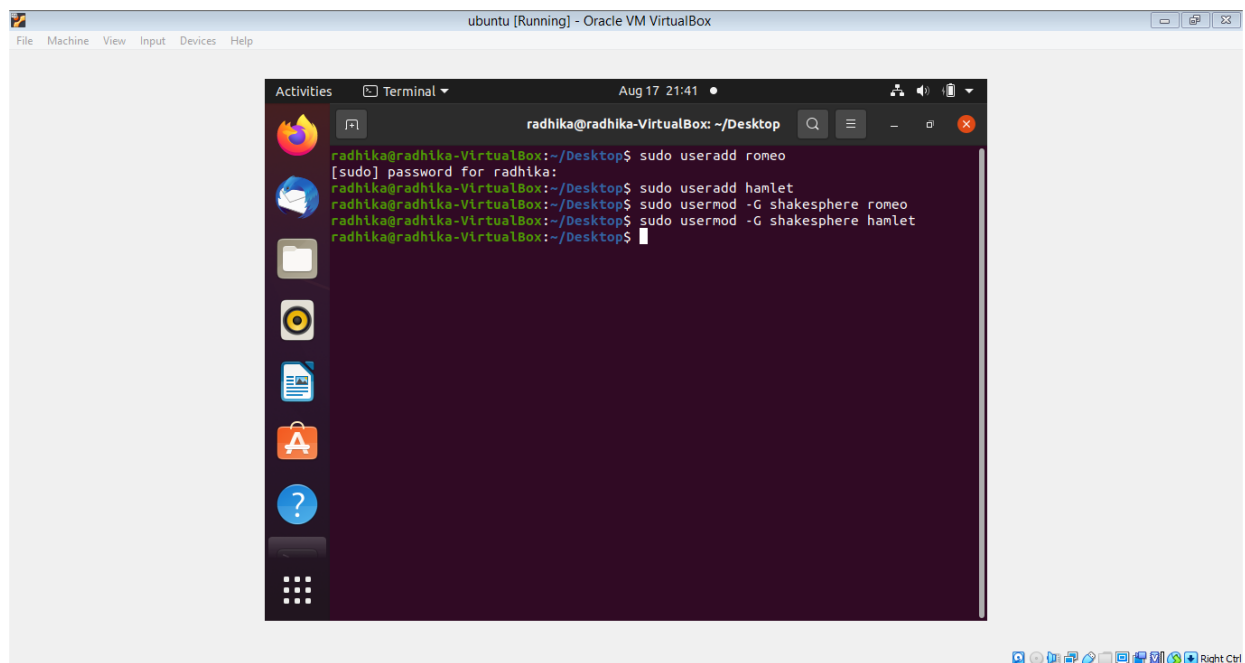
15. Add the Juliet user to the Shakespeare group as a supplementary group



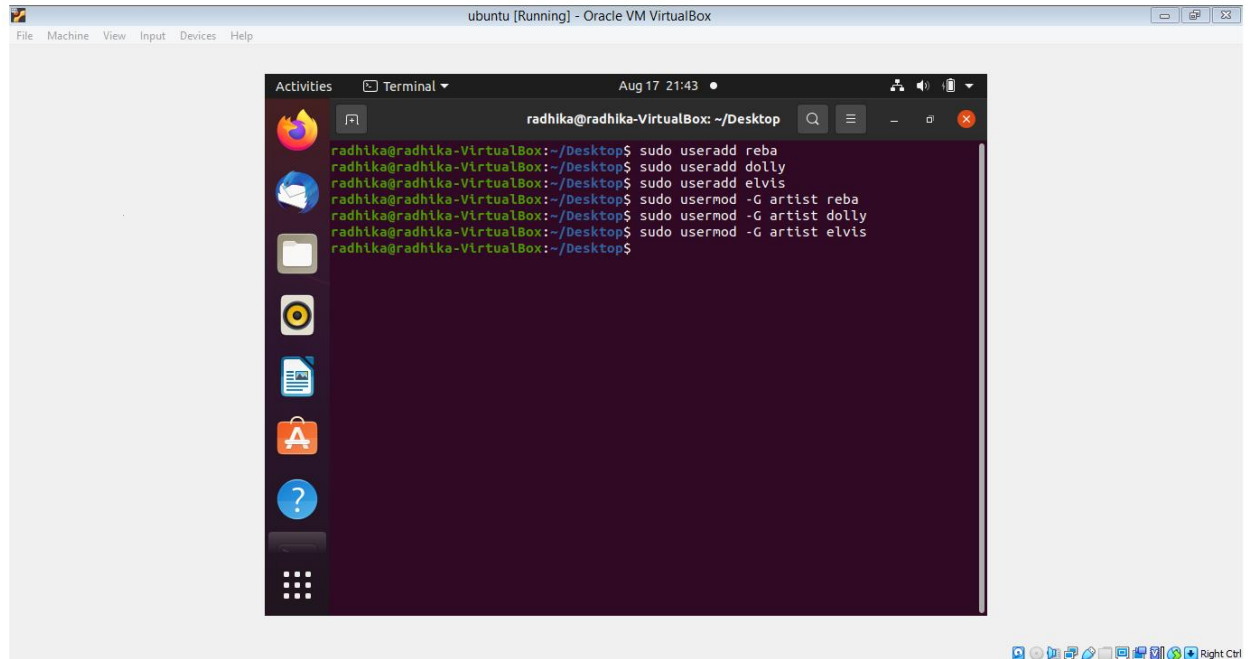
16. Confirm that Juliet has been added using the `id` command.



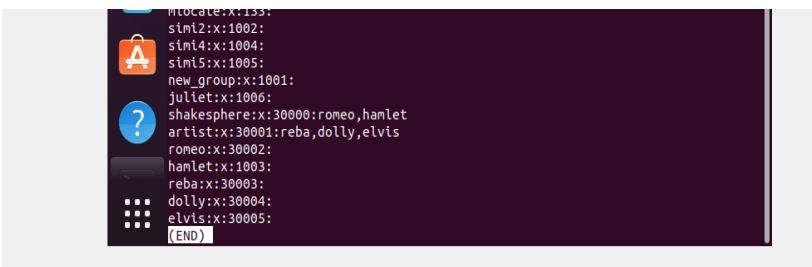
17. Add Romeo and Hamlet to the Shakespeare group



18. Add Reba, Dolly and Elvis to the artists group.



19. Verify the supplemental group memberships by examining the `/etc/group` file.



20. Attempt to remove user Dolly.

