Networking & System Administration Lab Assignment-5

Submitted by:

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Roll no: 10

S2 RMCA A

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

1.

a. Create six files with name of the form songX.mp3

```
user@user-VirtualBox:~/labworks
cat > song1.mp3
^c
user@user-VirtualBox:~/labworks$ cat > song2.mp3
^c
user@user-VirtualBox:~/labworks$ cat > song3.mp3
^c
user@user-VirtualBox:~/labworks$ cat > song4.mp3
^c
user@user-VirtualBox:~/labworks$ cat > song5.mp3
^c
user@user-VirtualBox:~/labworks$ cat > song6.mp3
^c
user@user-VirtualBox:~/labworks$
cat > song6.mp3
^c
user@user-VirtualBox:~/labworks$
```

b. Create six files with name of the form snapX.mp3

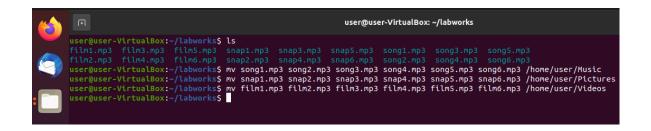


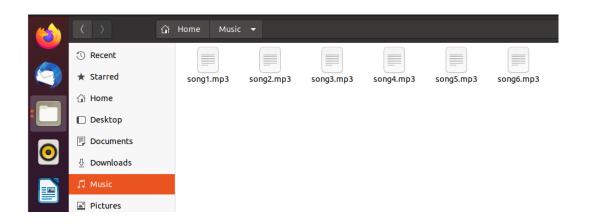
c. Create six files with name of the form filmX.mp3

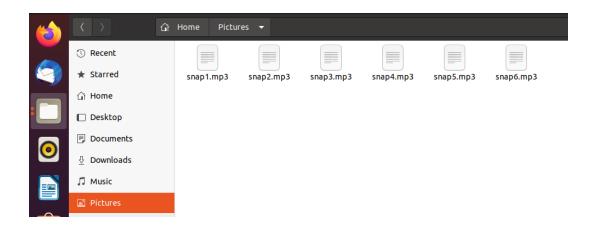
(In each set, replace X with the numbers 1 through 6)

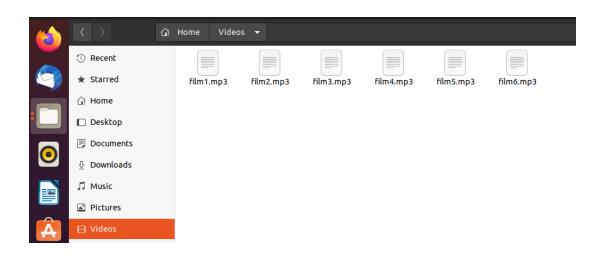
```
user@user-VirtualBox:~/labworks$ cat > film1.mp3
^C
user@user-VirtualBox:~/labworks$ cat > film2.mp3
^C
user@user-VirtualBox:~/labworks$ cat > film3.mp3
^C
user@user-VirtualBox:~/labworks$ cat > film4.mp3
^C
user@user-VirtualBox:~/labworks$ cat > film5.mp3
^C
user@user-VirtualBox:~/labworks$ cat > film6.mp3
^C
user@user-VirtualBox:~/labworks$ cat > film6.mp3
^C
user@user-VirtualBox:~/labworks$
```

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.









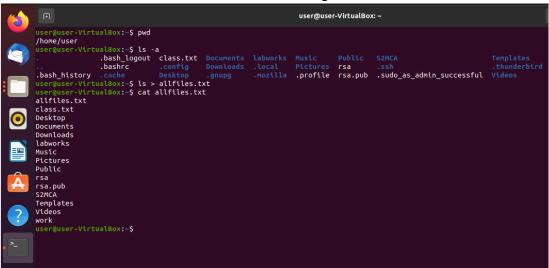
5. Attempt to delete both family and friends projects with a single rmdir command.

```
user@user-VirtualBox:~$ rmdir friends family
rmdir: failed to remove 'friends': Directory not empty
rmdir: failed to remove 'family': Directory not empty
user@user-VirtualBox:~$
```

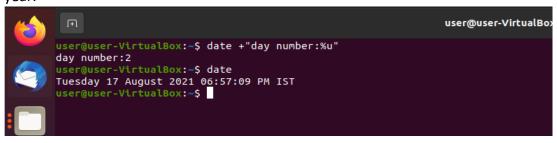
6. Use another command that will succeed in deleting both the family and friends folder.



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.



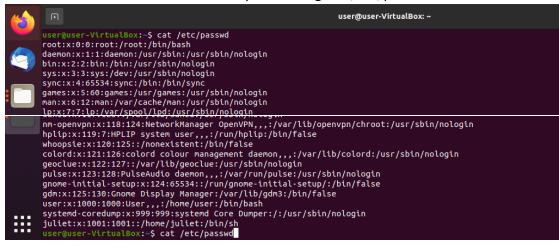
8. In the command window, display today's date with day of the week, month, date and year.



9. Add the user Juliet.



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



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



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



13. Create a supplementary group called artists.

```
user@user-VirtualBox:~$ sudo groupadd artists
user@user-VirtualBox:~$ cat /etc/group

root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,user
tty:x:5:syslog
disk:x:6:
|p:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
```

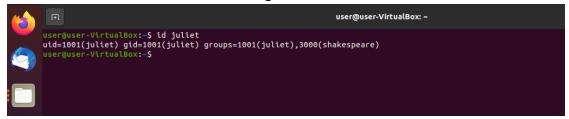
14. Confirm that Shakespeare and artists have been added by examining the /etc/group file.

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

```
user@user-VirtualBox:~$ sudo usermod -a -G shakespeare jullet
user@user-VirtualBox:~$ groups juliet
jullet : juliet shakespeare
user@user-VirtualBox:~$

User@user-VirtualBox:~$
```

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



17. Add Romeo and Hamlet to the Shakespeare group.

```
user@user-VirtualBox:~$ sudo useradd -G artists Reba
user@user-VirtualBox:~$ sudo useradd -G artists Dolly
user@user-VirtualBox:~$ sudo useradd -G artists Elvis
user@user-VirtualBox:~$

user@user-VirtualBox:~$
```

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



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

```
geoclue:x:127:
pulse:x:128:
pulse-access:x:129:
gdm:x:130:
lxd:x:131:user
user:x:1000:
sambashare:x:132:user
systemd-coredump:x:999:
Shakespeare:x:30000:
juliet:x:1001:
shakespeare:x:30000:juliet,Romeo,Hamlet
artists:x:30001:Reba,Dolly,Elvis
Romeo:x:1002:
Hamlet:x:1003:
Reba:x:1004:
Dolly:x:1005:
Elvis:x:1006:
user@user-VirtualBox:~$
```

20. Attempt to remove user Dolly.

```
user@user-VirtualBox:~$ sudo userdel Dolly
user@user-VirtualBox:~$ cat /etc/group
root:x:0:
    daemon:x:1:
    bin:x:2:
    sys:x:3:
    adm:x:4:syslog, user
    tty:x:5:syslog
    disk:x:6:
        | Dix:7:
        mall:x:8:
        news:x:9:
        uucp:x:10:
        pulse-access:x:129:
        gdm:x:130:
        latd:x:131:user
        user:x:1000:
        sambashare:x:132:user
        systemd-coredump:x:999:
        Shakespeare:x:30000:
        juliet:x:1001:
        shakespeare:x:3000:juliet,Romeo,Hamlet
        artists:x:3001:Reba;Elvis
        Romeo:x:1002:
        Hamlet:x:1003:
        Reba:x:1004:
        Elvis:x:1006:
        user@user-VirtualBox:~$
```