

Question:

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

```
ashtami@ashtami-VirtualBox:~$ touch song1.mp3 song2.mp3 song3.mp3 song4.mp3 song5.mp3 song6.mp3
ashtami@ashtami-VirtualBox:~$ touch snap1.mp3 snap2.mp3 snap3.mp3 snap4.mp3 sna
p5.mp3 snap6.mp3
ashtami@ashtami-VirtualBox:~$ touch film1.mp3 film2.mp3 film3.mp3 film4.mp3 fil
m5.mp3 film6.mp3
ashtami@ashtami-VirtualBox:~$ ls
archieve1.tar file2.txt film6.mp3 new.txt snap2.mp3 song2.mp3 Videos
book film1.mp3 mca Pictures snap3.mp3 song3.mp3
Desktop film2.mp3 MCA Public snap4.mp3 song4.mp3
Documents film3.mp3 Music q1.txt snap5.mp3 song5.mp3
Downloads film4.mp3 myfile.txt q2.txt snap6.mp3 song6.mp3
file1 film5.mp3 newfile.txt snap1.mp3 song1.mp3 Templates
ashtami@ashtami-VirtualBox:~$
```

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.

```
ashtami@ashtami-VirtualBox:~$ mv song1.mp3 song2.mp3 song3.mp3 song4.mp3 song5.
mp3 song6.mp3 ./Music/
ashtami@ashtami-VirtualBox:~$ ls
                        film4.mp3 Music
                                                Public
                                                           snap3.mp3 Videos
              file2.txt film5.mp3 myfile.txt
                                                          snap4.mp3
              film1.mp3 film6.mp3 newfile.txt q2.txt
                                   new.txt
              film3.mp3 MCA
                                                snap2.mp3 Templates
                                   Pictures
ashtami@ashtami-VirtualBox:~$ ls -R Music
Music:
song1.mp3 song2.mp3 song3.mp3 song4.mp3 song5.mp3 song6.mp3
ashtami@ashtami-VirtualBox:~$
```

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.

```
ashtami@ashtami-VirtualBox:~$ mkdir friends family work
ashtami@ashtami-VirtualBox:~$ ls
               file1
                                     myfile.txt
               file2.txt
                                     newfile.txt
                                                             Templates
                                                             Videos
Desktop
                          friends
                                     new.txt
Documents
                                     Pictures
                                                             work
Downloads
                                     Public
                                                  snap4.mp3
family
                                     q1.txt
```

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

```
ashtami@ashtami-VirtualBox:~$ cp Music/song6.mp3 friends
ashtami@ashtami-VirtualBox:~$ cp Music/song5.mp3 friends
ashtami@ashtami-VirtualBox:~$ cp Music/song4.mp3 friends
ashtami@ashtami-VirtualBox:~$ cp Music/song3.mp3 friends
ashtami@ashtami-VirtualBox:~$ cp Music/song2.mp3 friends
ashtami@ashtami-VirtualBox:~$ cp Music/song1.mp3 friends
ashtami@ashtami-VirtualBox:~$ ls
               file1
                                     myfile.txt
               file2.txt film6.mp3
                                     newfile.txt
                                                  q2.txt
               film1.mp3
                                     new.txt
                                                             Templates
Desktop
                         friends
Documents
                                     Picture
                                                             Videos
Downloads
               film3.mp3
                          MCA
                                     Pictures
                                                             work
family
                         Music
                                     Public
```

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

```
ashtami@ashtami-VirtualBox:~$ rm -r family friends
ashtami@ashtami-VirtualBox:~$ ls
archieve1.tar file2.txt film6.mp3 new.txt q2.txt snap6.mp3
book film1.mp3 mca Pic snap1.mp3 Templates
Desktop film2.mp3 MCA Picture snap2.mp3 Videos
Documents film3.mp3 Music Pictures snap3.mp3 work
Downloads film4.mp3 myfile.txt Public snap4.mp3
file1 film5.mp3 newfile.txt q1.txt snap5.mp3
```

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

```
ashtami@ashtami-VirtualBox:~$ rmdir family friends rmdir: failed to remove 'family': No such file or directory rmdir: failed to remove 'friends': No such file or directory ashtami@ashtami-VirtualBox:~$
```

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.

```
ashtami@ashtami-VirtualBox:~$ ls -al > allfile.txt
ashtami@ashtami-VirtualBox:~$ ls
allfile.txt
              file1
                                     newfile.txt q1.txt
              file2.txt
                        film6.mp3
                                     new.txt
book
                                     Pic
                                                  snap1.mp3 Templates
Desktop
                                     Picture
Documents
              film3.mp3 Music
                                     Pictures
                                                  snap3.mp3 work
              film4.mp3 myfile.txt Public
Downloads
                                                  snap4.mp3
```

```
ashtami@ashtami-VirtualBox:~$ cat allfile.txt
total 192
drwxr-xr-x 24 ashtami ashtami
                               4096 Aug 17 09:19 .
                               4096 Jun 13 07:15 ...
drwxr-xr-x
          3 root
                     root
           1 ashtami ashtami
                                  0 Aug 17 09:20 allfile.txt
           1 ashtami ashtami 10240 Aug 12 10:07 archieve1.tar
           1 ashtami ashtami 4247 Aug 17 08:50 .bash_history
           1 ashtami ashtami 220 Jun 13 07:15 .bash logout
           1 ashtami ashtami 3771 Jun 13 07:15 .bashrc
           2 ashtami ashtami 4096 Aug
drwxr-xr-x
                                        9 09:36 book
drwx----- 13 ashtami ashtami 4096 Aug 17 08:20 .cache
drwx----- 14 ashtami ashtami 4096 Aug 10 04:19 .config
drwxr-xr-x 2 ashtami ashtami 4096 Aug 10 04:12 Desktop
drwxr-xr-x 3 ashtami ashtami 4096 Jun 15 05:54 Documents
drwxr-xr-x 2 ashtami ashtami 4096 Jun 13 07:29 Downloads
drwxrwxr-x 2 ashtami ashtami 4096 Aug 9 09:37 file1
           1 ashtami ashtami
                               56 Jun 21 12:13 file2.txt
- FW - FW - F - -
                                 6 Aug 17 08:12 film1.mp3
           1 ashtami ashtami
           1 ashtami ashtami
                                 6 Aug 17 08:12 film2.mp3
                                 6 Aug 17 08:12 film3.mp3
           1 ashtami ashtami
           1 ashtami ashtami
                                 6 Aug 17 08:12 film4.mp3
           1 ashtami ashtami
                                  6 Aug 17 08:12 film5.mp3
           1 ashtami ashtami
                                  6 Aug 17 08:12 film6.mp3
           3 ashtami ashtami 4096 Aug 17 08:09 .gnupg
           3 ashtami ashtami 4096 Jun 13 07:29 .local
           2 ashtami ashtami 4096 Aug 12 09:41 mca
           2 ashtami ashtami 4096 Aug 10 11:26 MCA
           2 ashtami ashtami
                              4096 Aug 17 08:15 Music
-rw-rw-r-- 1 ashtami ashtami
                                 6 Aug 12 09:36 myfile.txt
```

```
1 ashtami ashtami
                                   6 Aug 12 09:36 myfile.txt
                                  42 Aug 9 11:31 newfile.txt
rw-rw-r-- 1 ashtami ashtami
-rw-rw-r-- 1 ashtami ashtami
                                  8 Aug 9 11:31 new.txt
drwxrwxr-x 2 ashtami ashtami
                               4096 Aug 17 08:53 Pic
drwxrwxr-x 2 ashtami ashtami 4096 Aug 17 08:20 Picture
drwxr-xr-x 2 ashtami ashtami 4096 Jun 13 07:29 Pictures
-rw-r--r-- 1 ashtami ashtami 807 Jun 13 07:15 .profile
drwxr-xr-x 2 ashtami ashtami 4096 Jun 13 07:29 Public
drwxrwxr-x 3 ashtami ashtami 4096 Jun 15 05:55 q1.txt
drwxrwxr-x 2 ashtami ashtami 4096 Jun 21 11:58 q2.txt
rw-rw-r-- 1 ashtami ashtami
                                 4 Aug 17 09:15 snap1.mp3
-rw-rw-r-- 1 ashtami ashtami 5 Aug 17 08:12 snap2.mp3
-rw-rw-r-- 1 ashtami ashtami 4 Aug 17 08:12 snap3.mp3
-rw-rw-r-- 1 ashtami ashtami 4 Aug 17 08:12 snap4.mp3
rw-rw-r-- 1 ashtami ashtami
                                  4 Aug 17 08:12 snap5.mp3
rw-rw-r-- 1 ashtami ashtami 4 Aug 17 08:12 snap6.mp3
drwx----- 2 ashtami ashtami 4096 Aug 12 10:20 .ssh
rw-r--r-- 1 ashtami ashtami     0 Aug 10 04:15 .sudo_as_admin_successful
drwxr-xr-x 2 ashtami ashtami 4096 Jun 13 07:29 Templates
drwxr-xr-x 2 ashtami ashtami 4096 Jun 13 07:29 Videos
drwxrwxr-x 2 ashtami ashtami 4096 Aug 17 08:17 work
```

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

```
ashtami@ashtami-VirtualBox:~$ date
Tue 17 Aug 2021 09:22:48 AM EDT
```

9. Add the user Juliet

```
ashtami@ashtami-VirtualBox:~$ sudo useradd juliet [sudo] password for ashtami:
```

```
ashtami@ashtami-VirtualBox:~$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
qnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/qnats:/usr/sbin/nolog
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/
nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sb
in/nologin
messagebus:x:103:106::/nonexistent:/usr/sbin/nologin
syslog:x:104:110::/home/syslog:/usr/sbin/nologin
_apt:x:105:65534::/nonexistent:/usr/sbin/nologin
tss:x:106:111:TPM software stack...:/var/lib/tpm:/bin/false
```

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

File

```
ashtami@ashtami-VirtualBox:~$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nolog
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/
nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sb
in/nologin
messagebus:x:103:106::/nonexistent:/usr/sbin/nologin
syslog:x:104:110::/home/syslog:/usr/sbin/nologin
```

```
tcpdump:x:108:115::/nonexistent:/usr/sbin/nologin
avahi-autoipd:x:109:116:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin
/nologin
usbmux:x:110:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
rtkit:x:111:117:RealtimeKit,,,:/proc:/usr/sbin/nologin
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
cups-pk-helper:x:113:120:user for cups-pk-helper service,,,:/home/cups-pk-helpe
r:/usr/sbin/nologin
speech-dispatcher:x:114:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/fal
avahi:x:115:121:Avahi mDNS daemon,,,:/var/run/avahi-daemon:/usr/sbin/nologin
kernoops:x:116:65534:Kernel Oops Tracking Daemon,,,:/:/usr/sbin/nologin
saned:x:117:123::/var/lib/saned:/usr/sbin/nologin
nm-openvpn:x:118:124:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbi
n/nologin
hplip:x:119:7:HPLIP system user,,,:/run/hplip:/bin/false
whoopsie:x:120:125::/nonexistent:/bin/false
colord:x:121:126:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/n
geoclue:x:122:127::/var/lib/geoclue:/usr/sbin/nologin
pulse:x:123:128:PulseAudio daemon,,,:/var/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:124:65534::/run/gnome-initial-setup/:/bin/false
gdm:x:125:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
ashtami:x:1000:1000:Ashtami Prasad,,,:/home/ashtami:/bin/bash
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
juliet:x:1001:1006::/home/juliet:/bin/sh
```

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

```
ashtami@ashtami-VirtualBox:~$ sudo passwd juliet
New password:
Retype new password:
passwd: password updated successfully
ashtami@ashtami-VirtualBox:~$
```

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

```
ashtami@ashtami-VirtualBox:~$ sudo groupadd -g 3000 shakespheare
ashtami@ashtami-VirtualBox:~$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,ashtami
tty:x:5:syslog
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
fax:x:21:
voice:x:22:
cdrom:x:24:ashtami
floppy:x:25:
```

```
floppy:x:25:
tape:x:26:
sudo:x:27:ashtami
audio:x:29:pulse
dip:x:30:ashtami
www-data:x:33:
backup:x:34:
operator:x:37:
list:x:38:
irc:x:39:
src:x:40:
gnats:x:41:
shadow:x:42:
utmp:x:43:
video:x:44:
sasl:x:45:
plugdev:x:46:ashtami
staff:x:50:
games:x:60:
users:x:100:
nogroup:x:65534:
systemd-journal:x:101:
systemd-network:x:102:
systemd-resolve:x:103:
systemd-timesync:x:104:
crontab:x:105:
messagebus:x:106:
input:x:107:
```

13. Create a supplementary group called artists.

```
ashtami@ashtami-VirtualBox:~$ sudo groupadd artists
```

```
ashtami@ashtami-VirtualBox:~$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,ashtami
tty:x:5:syslog
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
fax:x:21:
voice:x:22:
cdrom:x:24:ashtami
floppy:x:25:
tape:x:26:
sudo:x:27:ashtami
audio:x:29:pulse
dip:x:30:ashtami
www-data:x:33:
```

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

```
tcpdump:x:115:
avahi-autoipd:x:116:
rtkit:x:117:
ssh:x:118:
netdev:x:119:
lpadmin:x:120:ashtami
avahi:x:121:
scanner:x:122:saned
saned:x:123:
nm-openvpn:x:124:
whoopsie:x:125:
colord:x:126:
qeoclue:x:127:
pulse:x:128:
pulse-access:x:129:
gdm:x:130:
lxd:x:131:ashtami
ashtami:x:1000:
sambashare:x:132:ashtami
systemd-coredump:x:999:
Mca:x:1001:
MCA:x:1002:
Newgrp:x:1003:
grp:x:1004:
newgrp:x:1005:
juliet:x:1006:
shakespheare:x:3000:
artists:x:3001:
```

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

```
ashtami@ashtami-VirtualBox:~$ sudo usermod -G shakespheare juliet
ashtami@ashtami-VirtualBox:~$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,ashtami
tty:x:5:syslog
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
fax:x:21:
voice:x:22:
cdrom:x:24:ashtami
floppy:x:25:
tape:x:26:
sudo:x:27:ashtami
audio:x:29:pulse
dip:x:30:ashtami
www-data:x:33:
hackun:x:34:
```

```
tcpdump:x:115:
avahi-autoipd:x:116:
rtkit:x:117:
ssh:x:118:
netdev:x:119:
lpadmin:x:120:ashtami
avahi:x:121:
scanner:x:122:saned
saned:x:123:
nm-openvpn:x:124:
whoopsie:x:125:
colord:x:126:
geoclue:x:127:
pulse:x:128:
pulse-access:x:129:
gdm:x:130:
lxd:x:131:ashtami
ashtami:x:1000:
sambashare:x:132:ashtami
systemd-coredump:x:999:
Mca:x:1001:
MCA:x:1002:
Newgrp:x:1003:
grp:x:1004:
newgrp:x:1005:
juliet:x:1006:
shakespheare:x:3000:juliet
artists:x:3001:
```

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

```
ashtami@ashtami-VirtualBox:~$ id -u juliet
1001
ashtami@ashtami-VirtualBox:~$ id -g juliet
1006
```

17. Add Romeo and Hamlet to the Shakespeare group.

```
ashtami@ashtami-VirtualBox:~$ sudo usermod -G shakespheare romeo
ashtami@ashtami-VirtualBox:~$ sudo usermod -G shakespheare hamlet
ashtami@ashtami-VirtualBox:~$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog
tty:x:5:syslog
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
fax:x:21:
voice:x:22:
cdrom:x:24:
floppy:x:25:
tape:x:26:
sudo:x:27:
audio:x:29:pulse
dip:x:30:
www-data:x:33:
backup:x:34:
operator:x:37:
```

```
tcpdump:x:115:
avahi-autoipd:x:116:
rtkit:x:117:
ssh:x:118:
netdev:x:119:
lpadmin:x:120:
avahi:x:121:
scanner:x:122:saned
saned:x:123:
nm-openvpn:x:124:
whoopsie:x:125:
colord:x:126:
geoclue:x:127:
pulse:x:128:
pulse-access:x:129:
adm:x:130:
lxd:x:131:
ashtami:x:1000:
sambashare:x:132:
systemd-coredump:x:999:
Mca:x:1001:
MCA:x:1002:
Newgrp:x:1003:
grp:x:1004:
newgrp:x:1005:
juliet:x:1006:
shakespheare:x:3000:juliet,ashtami,romeo,hamlet
artists:x:3001:
```

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

```
ashtami@ashtami-VirtualBox:~$ sudo useradd -g artists Reba
ashtami@ashtami-VirtualBox:~$ sudo useradd -g artists Dolly
ashtami@ashtami-VirtualBox:~$ Elvis
^[[AElvis: command not found
ashtami@ashtami-VirtualBox:~$ sudo useradd -g artists Elvis
```

```
ashtami@ashtami-VirtualBox:~$ sudo usermod -G artists Reba
ashtami@ashtami-VirtualBox:~$ sudo usermod -G artists Dolly
ashtami@ashtami-VirtualBox:~$ sudo usermod -G artists Elvis
ashtami@ashtami-VirtualBox:~$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog
tty:x:5:syslog
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
fax:x:21:
voice:x:22:
cdrom:x:24:
floppy:x:25:
tape:x:26:
sudo:x:27:
audio:x:29:pulse
dip:x:30:
www-data:x:33:
```

```
tcpdump:x:115:
avahi-autoipd:x:116:
rtkit:x:117:
ssh:x:118:
netdev:x:119:
lpadmin:x:120:
avahi:x:121:
scanner:x:122:saned
saned:x:123:
nm-openvpn:x:124:
whoopsie:x:125:
colord:x:126:
qeoclue:x:127:
pulse:x:128:
pulse-access:x:129:
gdm:x:130:
lxd:x:131:
ashtami:x:1000:
sambashare:x:132:
systemd-coredump:x:999:
Mca:x:1001:
MCA:x:1002:
Newgrp:x:1003:
grp:x:1004:
newgrp:x:1005:
juliet:x:1006:
shakespheare:x:3000:juliet,ashtami,romeo,hamlet
artists:x:3001:Reba,Dolly,Elvis
```

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

```
tcpdump:x:115:
avahi-autoipd:x:116:
rtkit:x:117:
ssh:x:118:
netdev:x:119:
lpadmin:x:120:
avahi:x:121:
scanner:x:122:saned
saned:x:123:
nm-openvpn:x:124:
whoopsie:x:125:
colord:x:126:
qeoclue:x:127:
pulse:x:128:
pulse-access:x:129:
gdm:x:130:
lxd:x:131:
ashtami:x:1000:
sambashare:x:132:
systemd-coredump:x:999:
Mca:x:1001:
MCA:x:1002:
Newgrp:x:1003:
grp:x:1004:
newgrp:x:1005:
juliet:x:1006:
shakespheare:x:3000:juliet,ashtami,romeo,hamlet
artists:x:3001:Reba,Dolly,Elvis
```

20. Attempt to remove user Dolly.

```
ashtami@ashtami-VirtualBox:~$ sudo userdel Dolly
ashtami@ashtami-VirtualBox:~$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
svs:x:3:
adm:x:4:syslog
tty:x:5:syslog
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
tcpdump:x:115:
avahi-autoipd:x:116:
rtkit:x:117:
ssh:x:118:
netdev:x:119:
lpadmin:x:120:
avahi:x:121:
scanner:x:122:saned
saned:x:123:
nm-openvpn:x:124:
whoopsie:x:125:
colord:x:126:
geoclue:x:127:
pulse:x:128:
pulse-access:x:129:
adm:x:130:
lxd:x:131:
ashtami:x:1000:
sambashare:x:132:
systemd-coredump:x:999:
Mca:x:1001:
MCA:x:1002:
Newgrp:x:1003:
grp:x:1004:
newgrp:x:1005:
juliet:x:1006:
shakespheare:x:3000:juliet,ashtami,romeo,hamlet
artists:x:3001:Reba,Elvis
```