NETWORKING AND SYSTEM ADMINISTRATION LAB

ASSIGNMENT 5 - LAB EXCERCISES

SUBMITTED TO

MEERA MISS

SUBMITTED BY

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ROLL NO: 31

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

```
swathy@LAPTOP-1TOUJQNG:~$ touch song1.mp3 song2.mp3 song3.mp3 song4.mp3 song5.mp3 song6.mp3
swathy@LAPTOP-1TOUJQNG:~$
```

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

```
swathy@LAPTOP-1TOUJQNG:~$ touch snap1.jpg snap2.jpg snap3.jpg snap4.jpg snap5.jpg snap6.jpg
swathy@LAPTOP-1TOUJQNG:~$
```

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

```
swathy@LAPTOP-1TOUJQNG:~$ touch film1.mp4 film2.mp4 film3.mp4 file4.mp4 file5.mp4 file6.mp4
swathy@LAPTOP-1TOUJQNG:~$
```

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.

```
swathy@LAPTOP-1TOUJQNG:~$ mv *.mp3 ./Music/
swathy@LAPTOP-1TOUJQNG:~$ mv *.jpg ./Pictures/
swathy@LAPTOP-1TOUJQNG:~$ mv *.mp4 ./Vedios/
```

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

```
swathy@LAPTOP-1TOUJQNG:~$ mkdir -p {friends,family,work}
```

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

```
cp: target '/Desktop/swathy/friends/' is not a directory
swathy@LAPTOP-1TOUJQNG:~$ cp /home/swathy/Music song1.mp3 song2.mp3 song3.mp3 song4.mp3 song5.mp3 song6.mp3 /home/swathy/friends/
swathy@LAPTOP-1TOUJQNG:~$ cp /home/swathy/Pictures snap1.jpg snap2.jpg snap3.jpg snap4.jpg snap5.jpg snap6.jpg /home/swathy/family/
```

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

```
swathy@LAPTOP-1TOUJQNG:~$ rmdir {friends,family}
```

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

```
swathy@LAPTOP-1TOUJQNG:~$ rm - friends family
```

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.

```
swathy@LAPTOP-1TOUJQNG:~$ ls -a > allfiles.txt
swathy@LAPTOP-1TOUJQNG:~$
```

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

```
swathy@LAPTOP-1TOUJQNG:~$ date
Tue Aug 17 19:29:24 IST 2021
swathy@LAPTOP-1TOUJQNG:~$
```

9. Add the user Juliet

```
swathy@LAPTOP-1TOUJQNG:~$ sudo useradd Juliet
[sudo] password for swathy:
swathy@LAPTOP-1TOUJQNG:~$
```

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

```
swathy@LAPTOP-1TOUJQNG:~$ cat /etc/passwd | grep Juliet
Juliet:x:1001:1012::/home/Juliet:/bin/sh
swathy@LAPTOP-1TOUJQNG:~$
```

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

```
swathy@LAPTOP-1TOUJQNG:~$ sudo passwd Juliet
New password:
Retype new password:
passwd: password updated successfully
swathy@LAPTOP-1TOUJQNG:~$
```

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

```
swathy@LAPTOP-1TOUJQNG:~$ sudo groupadd -g 30000 Shakespheare
swathy@LAPTOP-1TOUJQNG:~$
```

13. Create a supplementary group called artists

```
swathy@LAPTOP-1TOUJQNG:~$ sudo groupadd artist
swathy@LAPTOP-1TOUJQNG:~$
```

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

```
swathy@LAPTOP-1TOUJQNG:~$ less /etc/group
Shakespheare:x:30000:
artist:x:30001:
```

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

```
swathy@LAPTOP-1TOUJQNG:~$ sudo usermod -G Shakespheare Juliet
swathy@LAPTOP-1TOUJQNG:~$
```

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

```
swathy@LAPTOP-1TOUJQNG:~$ id Juliet
uid=1001(Juliet) gid=1012(Juliet) groups=1012(Juliet),30000(Shakespheare)
swathy@LAPTOP-1TOUJQNG:~$
```

17. Add Romeo and Hamlet to the Shakespeare group.

```
swathy@LAPTOP-1TOUJQNG:~$ sudo useradd Romeo
swathy@LAPTOP-1TOUJQNG:~$ sudo useradd Hamlet
swathy@LAPTOP-1TOUJQNG:~$ sudo usermod -G Shakespheare Romeo
swathy@LAPTOP-1TOUJQNG:~$ sudo usermod -G Shakespheare Hamlet
swathy@LAPTOP-1TOUJQNG:~$
```

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

```
swathy@LAPTOP-1TOUJQNG:~$ sudo useradd Reba
swathy@LAPTOP-1TOUJQNG:~$ sudo useradd Dolly
swathy@LAPTOP-1TOUJQNG:~$ sudo useradd Elvis
swathy@LAPTOP-1TOUJQNG:~$ sudo usermod -G artist Reba
swathy@LAPTOP-1TOUJQNG:~$ sudo usermod -G artist Dolly
swathy@LAPTOP-1TOUJQNG:~$ sudo usermod -G artist Elvis
swathy@LAPTOP-1TOUJQNG:~$
```

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

```
swathy@LAPTOP-1TOUJQNG:~$ less /etc/group
swathy@LAPTOP-1TOUJQNG:~$
Juliet:x:1001:
Shakespheare:x:30000:Juliet,Romeo,Hamlet
artist:x:30001:Reba,Dolly,Elvis
Romeo:x:1002:
Hamlet:x:1003:
Reba:x:1004:
Dolly:x:1005:
Elvis:x:1006:
```

20. Attempt to remove user Dolly.

```
swathy@LAPTOP-1TOUJQNG:~$ sudo userdel Dolly
swathy@LAPTOP-1TOUJQNG:~$
```