ASSIGNMENT 5
LAB EXCERCISES

Submitted By

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Roll_NO: 4

MCA A Batch

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

```
user@user-VirtualBox:~$ touch song1.mp3 song2.mp3 song3.mp3 song4.mp3 song5.mp3
 song6.mp3
user@user-VirtualBox:~$ ls
adarsh          Downloads   halo.txt    Pictures    sample1.txt   song2.mp3   song6.mp3
archive.tar     family      Music       Public      sample2.txt   song3.mp3   Templates
Desktop         files       name.txt    rsa         sample.txt    song4.mp3   Videos
Documents       friends     new.txt     rsa.pub     song1.mp3     song5.mp3   work
user@user-VirtualBox:~$
```

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

```
user@user-VirtualBox:~$ touch snap1.jpg snap2.jpg snap3.jpg snap4.jpg snap5.jpg
 snap6.jpg
user@user-VirtualBox:~$ ls
adarsh          family      name.txt    rsa.pub     snap2.jpg   song1.mp3   song6.mp3
archive.tar     files       new.txt     sample1.txt snap3.jpg   song2.mp3   Templates
Desktop         friends     Pictures    sample2.txt snap4.jpg   song3.mp3   Videos
Documents       halo.txt    Public      sample.txt  snap5.jpg   song4.mp3   work
Downloads       Music       rsa         snap1.jpg   snap6.jpg   song5.mp3
user@user-VirtualBox:~$
```

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

```
user@user-VirtualBox:~$ touch film1.mp4 film2.mp4 film3.mp4 film4.mp4 film5.mp4
 film6.mp4
user@user-VirtualBox:~$ ls
adarsh          film1.mp4           Music       sample1.txt snap5.jpg   song6.mp3
archive.tar     film2.mp4           name.txt    sample2.txt snap6.jpg   Templates
Desktop         film3.mp4           new.txt     sample.txt  song1.mp3   Videos
Documents       film4.mp4           Pictures    snap1.jpg   song2.mp3   work
Downloads       film5.mp4film6.mp4  Public      snap2.jpg   song3.mp3
family          friends             rsa         snap3.jpg   song4.mp3
files           halo.txt            rsa.pub     snap4.jpg   song5.mp3
user@user-VirtualBox:~$ rm
```

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.

```
user@user-VirtualBox:~$ mv *.mp3 ./Music/
user@user-VirtualBox:~$ ls
adarsh          family      film4.mp4   Music       rsa             snap1.jpg   snap6.jpg
archive.tar     files       film5.mp4   name.txt    rsa.pub         snap2.jpg   Templates
Desktop         film1.mp4   film6.mp4   new.txt     sample1.txt     snap3.jpg   Videos
Documents       film2.mp4   friends     Pictures    sample2.txt     snap4.jpg   work
Downloads       film3.mp4   halo.txt    Public      sample.txt      snap5.jpg
```

```
user@user-VirtualBox:~$ mv *.jpg ./Pictures/
user@user-VirtualBox:~$ mv *.mp4 ./Videos/
user@user-VirtualBox:~$ ls
adarsh          Downloads   halo.txt    Pictures    sample1.txt   Videos
archive.tar     family      Music       Public      sample2.txt   work
Desktop         files       name.txt    rsa         sample.txt
Documents       friends     new.txt     rsa.pub     Templates
user@user-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

```
user@user-VirtualBox:~$ mkdir family friends work
user@user-VirtualBox:~$ ls
adarsh          Downloads   halo.txt    Pictures    sample1.txt   Templates
archive.tar     family      Music       Public      sample2.txt   Videos
Desktop         files       name.txt    rsa         sample.txt    work
Documents       friends     new.txt     rsa.pub     songX.mp3
user@user-VirtualBox:~$
```

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

```
user@user-VirtualBox:~$ cp /home/user/Music song1.mp3 song2.mp3 song3.mp3 song4
.mp3 song5.mp3 song6.mp3 /home/user/friends/
user@user-VirtualBox:~$ cp /home/user/Pictures snap1.jpg snap2.jpg snap3.jpg sn
ap4.jpg snap5.jpg snap6.jpg /home/user/family/
```

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

```
user@user-VirtualBox:~$ rmdir {friends,family}
```

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

```
user@user-VirtualBox:~$ rm -r 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.

```
user@user-VirtualBox:~$ ls -a > allfiles.txt
user@user-VirtualBox:~$ ls
adarsh         Desktop     files      name.txt   Public    sample1.txt  Templates
allfiles.txt   Documents   halo.txt   new.txt    rsa       sample2.txt  Videos
archive.tar    Downloads   Music      Pictures   rsa.pub   sample.txt   work
```

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

```
user@user-VirtualBox:~$ date
Tuesday 17 August 2021 02:41:12 PM IST
user@user-VirtualBox:~$
```

9. Add the user Juliet

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

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

```
user@user-VirtualBox:~$ cat /etc/passwd | grep juliet
juliet:x:1002:1005::/home/juliet:/bin/sh
user@user-VirtualBox:~$
```

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

```
user@user-VirtualBox:~$ sudo passwd juliet
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
```

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

```
user@user-VirtualBox:~$ sudo groupadd -g 30000 shakespheare
user@user-VirtualBox:~$
```

13. Create a supplementary group called artists

```
user@user-VirtualBox:~$ sudo groupadd artist
user@user-VirtualBox:~$
```

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

```
user@user-VirtualBox:~$ less /etc/group

shakespheare:x:30000:
artist:x:30001:
(END)
```

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

```
user@user-VirtualBox:~$ sudo usermod -G shakespheare juliet
```

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

```
user@user-VirtualBox:~$ id juliet
uid=1002(juliet) gid=1005(juliet) groups=1005(juliet),30000(shakespheare)
user@user-VirtualBox:~$
```

17. Add Romeo and Hamlet to the Shakespeare group.

```
user@user-VirtualBox:~$ sudo useradd romeo
user@user-VirtualBox:~$ sudo useradd hamlet
user@user-VirtualBox:~$ sudo usermod -G shakespheare romeo
user@user-VirtualBox:~$ sudo usermod -G shakespheare hamlet
user@user-VirtualBox:~$
```

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

```
user@user-VirtualBox:~$ sudo useradd reba
user@user-VirtualBox:~$ sudo useradd dolly
user@user-VirtualBox:~$ sudo useradd elvis
user@user-VirtualBox:~$ sudo usermod -G artist reba
user@user-VirtualBox:~$ sudo usermod -G artist dolly
user@user-VirtualBox:~$ sudo usermod -G artist elvis
user@user-VirtualBox:~$
```

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

```
user@user-VirtualBox:~$ less /etc/group

juliet:x:1005:
shakespheare:x:30000:juliet,romeo,hamlet
artist:x:30001:reba,dolly,elvis
romeo:x:30002:
hamlet:x:30003:
reba:x:30004:
dolly:x:1006:
elvis:x:1007:
(END)
```

20. Attempt to remove user Dolly

```
user@user-VirtualBox:~$ sudo userdel dolly
user@user-VirtualBox:~$
```