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

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Section: MCA A BATCH

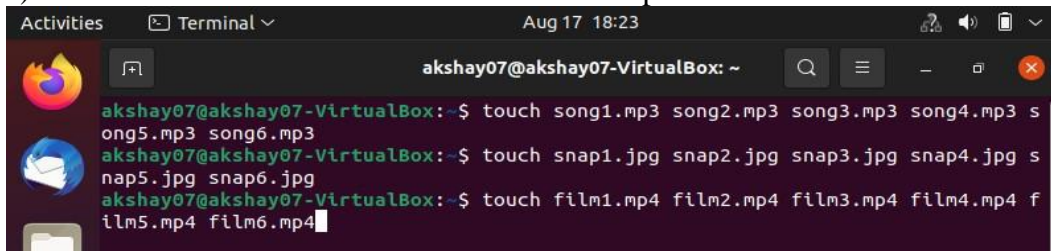
Subject: Networking And System Administration Lab

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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



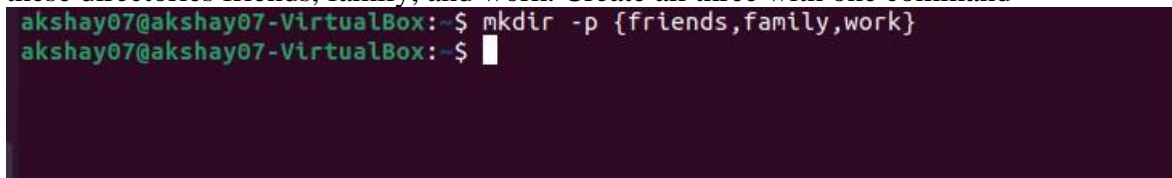
```
akshay07@akshay07-VirtualBox: ~  
akshay07@akshay07-VirtualBox:~$ touch song1.mp3 song2.mp3 song3.mp3 song4.mp3 song5.mp3 song6.mp3  
akshay07@akshay07-VirtualBox:~$ touch snap1.jpg snap2.jpg snap3.jpg snap4.jpg snap5.jpg snap6.jpg  
akshay07@akshay07-VirtualBox:~$ touch film1.mp4 film2.mp4 film3.mp4 film4.mp4 film5.mp4 film6.mp4
```

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.



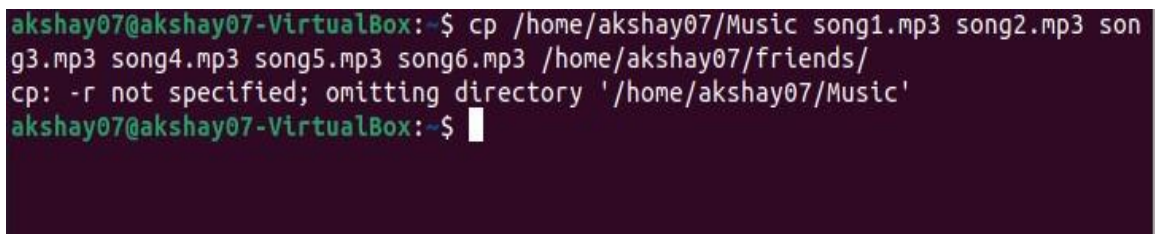
```
akshay07@akshay07-VirtualBox:~$ mv *.jpg ./Pictures/  
akshay07@akshay07-VirtualBox:~$ mv *.mp4 ./Videos/
```

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



```
akshay07@akshay07-VirtualBox:~$ mkdir -p {friends,family,work}  
akshay07@akshay07-VirtualBox:~$
```

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



```
akshay07@akshay07-VirtualBox:~$ cp /home/akshay07/Music song1.mp3 song2.mp3 song3.mp3 song4.mp3 song5.mp3 song6.mp3 /home/akshay07/friends/  
cp: -r not specified; omitting directory '/home/akshay07/Music'  
akshay07@akshay07-VirtualBox:~$
```

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



```
akshay07@akshay07-VirtualBox:~$ rmdir {friends,family}
```

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



```
akshay07@akshay07-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.

```
akshay07@akshay07-VirtualBox:~$ ls -a > allfiles.txt
akshay07@akshay07-VirtualBox:~$
```

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

```
akshay07@akshay07-VirtualBox:~$ date
Tuesday 17 August 2021 06:53:31 PM IST
akshay07@akshay07-VirtualBox:~$
```

9.Add the user Juliet

```
akshay07@akshay07-VirtualBox:~$ sudo useradd Juliet
[sudo] password for akshay07:
akshay07@akshay07-VirtualBox:~$
```

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

```
akshay07@akshay07-VirtualBox:~$ cat /etc/passwd | grep Juliet
Juliet:x:1001:1009::/home/Juliet:/bin/sh
akshay07@akshay07-VirtualBox:~$
```

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

```
akshay07@akshay07-VirtualBox:~$ sudo passwd Juliet
New password:
Retype new password:
passwd: password updated successfully
akshay07@akshay07-VirtualBox:~$
```

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

```
akshay07@akshay07-VirtualBox:~$ sudo groupadd -g 30000 shakespeare
akshay07@akshay07-VirtualBox:~$
```

13.Create a supplementary group called artists

```
akshay07@akshay07-VirtualBox:~$ sudo groupadd artists
akshay07@akshay07-VirtualBox:~$
```

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

```
Juliet:x:1009:
shakespeare:x:30000:
artists:x:30001:
(END)
```

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

```
akshay07@akshay07-VirtualBox:~$ sudo usermod -G shakespeare Juliet
akshay07@akshay07-VirtualBox:~$ id Juliet
```

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

```
akshay07@akshay07-VirtualBox:~$ id Juliet
uid=1001(Juliet) gid=1009(Juliet) groups=1009(Juliet),30000(shakespeare)
akshay07@akshay07-VirtualBox:~$
```

17. Add Romeo and Hamlet to the Shakespeare group.

```
akshay07@akshay07-VirtualBox:~$ sudo useradd Romeo
akshay07@akshay07-VirtualBox:~$ sudo useradd Hamlet
akshay07@akshay07-VirtualBox:~$ sudo usermod -G shakespeare Romeo
akshay07@akshay07-VirtualBox:~$ sudo usermod -G shakespeare Hamlet
```

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

```
akshay07@akshay07-VirtualBox:~$ sudo usermod -G artists Reba
akshay07@akshay07-VirtualBox:~$ sudo usermod -G artists Dolly
akshay07@akshay07-VirtualBox:~$ sudo usermod -G artists Elvis
```

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

```
Juliet:x:1009:  
shakesphere:x:30000:Juliet,Romeo,Hamlet  
artists:x:30001:Reba,Dolly,Elvis  
Romeo:x:30002:  
Hamlet:x:30003:  
Reba:x:1004:  
Dolly:x:30004:  
Elvis:x:30005:  
(END)
```

20. Attempt to remove user Dolly.

```
akshay07@akshay07-VirtualBox:~$ sudo userdel Dolly  
akshay07@akshay07-VirtualBox:~$
```