

ASS -1

1. In your home directory, create sets of empty practice files

- Create 6 files with names of the form songsX.mp3.
- Create 6 files with names of the form snapX.jpg.
- Create 6 files with names of the form filmX.avi.

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

```
dbda@iacsd:~$ pwd
/home/dbda
dbda@iacsd:~$ touch songs{1..6}.mp3
dbda@iacsd:~$ touch snap{1..6}.jpg
dbda@iacsd:~$ touch film{1..6}.avi
dbda@iacsd:~$ ls
Desktop      film4.avi   snap        snap6.jpg   songs6.mp3
Documents    film5.avi   snap1.jpg   songs1.mp3  Templates
Downloads    film6.avi   snap2.jpg   songs2.mp3  Videos
film1.avi    Music       snap3.jpg   songs3.mp3
film2.avi    Pictures    snap4.jpg   songs4.mp3
film3.avi    Public      snap5.jpg   songs5.mp3
dbda@iacsd:~$
```

2. From your home directory,

- Move songs file into your Music subdirectory.
- Move snap file into your Pictures subdirectory.
- Move your movie files into Videos subdirectory

```

dbda@iacsd:~$ pwd
/home/dbda
dbda@iacsd:~$ mv songs{1..6}.mp3 Music
dbda@iacsd:~$ mv snap{1..6}.jpg Pictures
dbda@iacsd:~$ mv film{1..6}.avi Videos
dbda@iacsd:~$ ls Music
songs1.mp3  songs3.mp3  songs5.mp3
songs2.mp3  songs4.mp3  songs6.mp3
dbda@iacsd:~$ ls Pictures
snap1.jpg  snap2.jpg  snap3.jpg  snap4.jpg  snap5.jpg  snap6.jpg
dbda@iacsd:~$ ls Videos
film1.avi  film2.avi  film3.avi  film4.avi  film5.avi  film6.avi
dbda@iacsd:~$

```

3. Create 3 subdirectories for organizing your files named friends,family,work

```

dbda@iacsd:~$ ls
Desktop    Downloads  Pictures  snap      Videos
Documents  Music      Public    Templates
dbda@iacsd:~$ mkdir friends family work
dbda@iacsd:~$ ls
Desktop    Downloads  friends  Pictures  snap      Videos
Documents  family     Music    Public    Templates  work
dbda@iacsd:~$ █

```

4. Copy files (all types) containing numbers 1 and 2 to the friends folder.
Copy files (all types) containing numbers 3 and 4 to the family folder.
Copy files (all types) containing numbers 5 and 6 to the work folder.

```
dbda@iacsd:~$ cp *{1,2}.* friends
dbda@iacsd:~$ cp *{3,4}.* family
dbda@iacsd:~$ cp *{5,6}.* work
dbda@iacsd:~$ ls friends
film1.avi  snap1.jpg  songs1.mp3
film2.avi  snap2.jpg  songs2.mp3
dbda@iacsd:~$ ls family
film3.avi  snap3.jpg  songs3.mp3
film4.avi  snap4.jpg  songs4.mp3
dbda@iacsd:~$ ls work
film5.avi  snap5.jpg  songs5.mp3
film6.avi  snap6.jpg  songs6.mp3
dbda@iacsd:~$
```

6. Delete all files in family subdirectory.

```
dbda@iacsd:~$ rm family/*
dbda@iacsd:~$ ls family
dbda@iacsd:~$
```

7. Delete friends subdirectory

```
dbda@iacsd:~$ rm -r friends
dbda@iacsd:~$ ls friends
ls: cannot access 'friends': No such file or directory
dbda@iacsd:~$
```

8. Create user tom , bob , sam , prince

```
dbda@iacsd:~$ sudo adduser tom
Adding user `tom' ...
Adding new group `tom' (1001) ...
Adding new user `tom' (1002) with group `tom' ...
Creating home directory `/home/tom' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for tom
Enter the new value, or press ENTER for the default
    Full Name []: tom
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y
```

```
dbda@iacsd:~$ sudo adduser bob
Adding user `bob' ...
Adding new group `bob' (1002) ...
Adding new user `bob' (1001) with group `bob' ...
The home directory `/home/bob' already exists. Not copying from
`/etc/skel'.
adduser: Warning: The home directory `/home/bob' does not belong
to the user you are currently creating.
New password:
BAD PASSWORD: The password is a palindrome
Retype new password:
passwd: password updated successfully
Changing the user information for bob
Enter the new value, or press ENTER for the default
    Full Name []: bob
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y
```

```
dbda@iacsd:~$ sudo adduser sam
Adding user `sam' ...
Adding new group `sam' (1003) ...
Adding new user `sam' (1003) with group `sam' ...
Creating home directory `/home/sam' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for sam
Enter the new value, or press ENTER for the default
    Full Name []: sam
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y
```

```
dbda@iacsd:~$ sudo adduser prince
Adding user `prince' ...
Adding new group `prince' (1004) ...
Adding new user `prince' (1004) with group `prince' ...
Creating home directory `/home/prince' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for prince
Enter the new value, or press ENTER for the default
    Full Name []: prince
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y
```

```
dbda@iacsd:~$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
```

```
gdm:x:134:
lxd:x:135:dbda
dbda:x:1000:
sambashare:x:136:dbda
tom:x:1001:
bob:x:1002:
sam:x:1003:
prince:x:1004:
dbda@iacsd:~$
```

9. Create Group dac , dbda ,ditiss

```
dbda@iacsd:~$ sudo addgroup dac
Adding group `dac' (GID 1005) ...
Done.
dbda@iacsd:~$ sudo addgroup dbda
addgroup: The group `dbda' already exists.
dbda@iacsd:~$ sudo addgroup ditiss
Adding group `ditiss' (GID 1006) ...
Done.
```

```
gdm:x:134:
lxd:x:135:dbda
dbda:x:1000:
sambashare:x:136:dbda
tom:x:1001:
bob:x:1002:
sam:x:1003:
prince:x:1004:
dac:x:1005:
ditiss:x:1006:
dbda@iacsd:~$
```

10. add user

Tom in dac
Bob in dbda
Sam in ditiss

```
dbda@iacsd:~$ sudo adduser tom --gid 1005
Adding user `tom' ...
Adding new user `tom' (1001) with group `dac' ...
dbda@iacsd:~$ sudo adduser bob --gid 1000
Adding user `bob' ...
Adding new user `bob' (1002) with group `dbda' ...
```

```
dbda@iacsd:~$ sudo adduser sam --gid 1006
Adding user `sam' ...
Adding new user `sam' (1003) with group `ditiss' ...
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false
dbda:x:1000:1000:dbda,,,:/home/dbda:/bin/bash
prince:x:1004:1004:prince,,,:/home/prince:/bin/bash
tom:x:1001:1005:tom,tom,tom,tom,tom:/home/tom:/bin/bash
bob:x:1002:1000:bob,bob,bob,bob,bob:/home/bob:/bin/bash
sam:x:1003:1006:sam,sam,sam,sam,sam:/home/sam:/bin/bash
dbda@iacsd:~$
```

11. login as prince and create iacsd directory in /tmp and create 4 files in iacsd with name project-1 project-2 upto 4

```
dbda@iacsd:~$ su prince
Password:
prince@iacsd:/home/dbda$ mkdir /tmp/iacsd
prince@iacsd:/home/dbda$ touch /tmp/iacsd/project-{1..4}
prince@iacsd:/home/dbda$ ls /tmp/iacsd
project-1 project-2 project-3 project-4
prince@iacsd:/home/dbda$
```

12. assign permissions to project files as below

Project-1 – tom should be owner of this

Project-2 – dac should be owner of this

Project-3 --- others should not have any permission but tom should have rw access

Project-4 – dbda group should have rwx permissions.

```
dbda@iacsd:~$ sudo -s
root@iacsd:/home/dbda# cd /tmp/iacsd
root@iacsd:/tmp/iacsd# ls
project-1 project-2 project-3 project-4
root@iacsd:/tmp/iacsd# ls -l
total 0
-rw-rw-r-- 1 prince prince 0 Mar 10 20:13 project-1
-rw-rw-r-- 1 prince prince 0 Mar 10 20:13 project-2
-rw-rw-r-- 1 prince prince 0 Mar 10 20:13 project-3
-rw-rw-r-- 1 prince prince 0 Mar 10 20:13 project-4
root@iacsd:/tmp/iacsd# chown tom project-1
root@iacsd:/tmp/iacsd# chgrp dac project-2
```

```
root@iacsd:/tmp/iacsd# chown tom project-3  
root@iacsd:/tmp/iacsd# chmod 670 project-3
```

```
root@iacsd:/tmp/iacsd# chgrp dbda project-4  
root@iacsd:/tmp/iacsd# chmod 470 project-4
```

```
root@iacsd:/tmp/iacsd# ls -l  
total 0  
-rw-rw-r-- 1 tom    prince 0 Mar 10 20:13 project-1  
-rw-rw-r-- 1 prince dac    0 Mar 10 20:13 project-2  
-rw-rwx--- 1 tom    prince 0 Mar 10 20:13 project-3  
-r--rwx--- 1 prince dbda   0 Mar 10 20:13 project-4  
root@iacsd:/tmp/iacsd#
```