

## 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.

A terminal window with a dark purple background. The prompt is 'dbda@dbda:~\$'. The first command is 'sudo touch songs{1..6}.mp3'. The second command is 'tree'. The output of 'tree' shows a directory structure starting with a dot, followed by Desktop, Documents, Downloads, Music, Pictures, Public, snap, and a subdirectory 'tree'. Inside 'tree' are '18', 'common', and 'current -> 18'. Below these are the files 'songs1.mp3' through 'songs6.mp3'.

```
dbda@dbda:~$ sudo touch songs{1..6}.mp3
dbda@dbda:~$ tree
.
├── Desktop
├── Documents
├── Downloads
├── Music
├── Pictures
├── Public
├── snap
├── tree
│   ├── 18
│   ├── common
│   └── current -> 18
├── songs1.mp3
├── songs2.mp3
├── songs3.mp3
├── songs4.mp3
├── songs5.mp3
└── songs6.mp3
```

```
dbda@dbda:~$ sudo touch snap{1..6}.jpg
dbda@dbda:~$ tree
.
├── Desktop
├── Documents
├── Downloads
├── Music
├── Pictures
├── Public
├── snap
│   └── tree
│       ├── 18
│       ├── common
│       └── current -> 18
├── snap1.jpg
├── snap2.jpg
├── snap3.jpg
├── snap4.jpg
├── snap5.jpg
└── snap6.jpg
```

```
dbda@dbda:~$ sudo touch film{1..6}.avi
dbda@dbda:~$ tree
.
├── Desktop
├── Documents
├── Downloads
├── film1.avi
├── film2.avi
├── film3.avi
├── film4.avi
├── film5.avi
├── film6.avi
└── Music
```

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

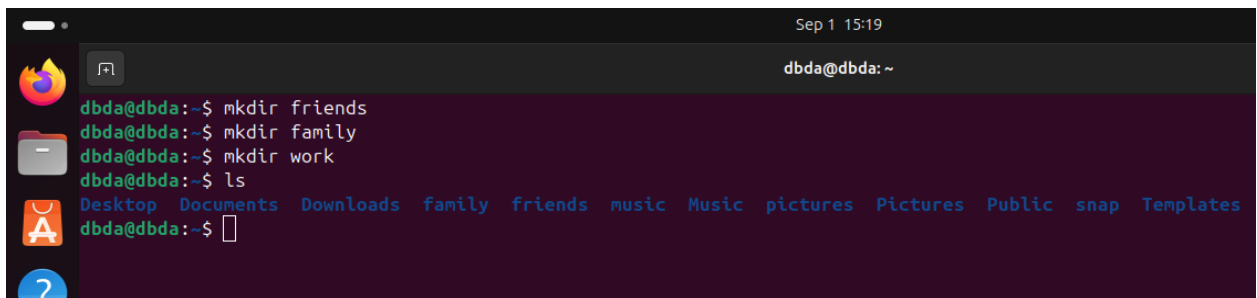
```
dbda@dbda: ~  
dbda@dbda:~$ mv songs1.mp3 songs2.mp3 songs3.mp3 songs4.mp3 songs5.mp3 songs6.mp3 music  
dbda@dbda:~$ tree  
.  
├── Desktop  
├── Documents  
├── Downloads  
├── film1.avi  
├── film2.avi  
├── film3.avi  
├── film4.avi  
├── film5.avi  
├── film6.avi  
├── music  
│   ├── songs1.mp3  
│   ├── songs2.mp3  
│   ├── songs3.mp3  
│   ├── songs4.mp3  
│   ├── songs5.mp3  
│   └── songs6.mp3
```

```
dbda@dbda:~$ mv snap1.jpg snap2.jpg snap3.jpg snap4.jpg snap5.jpg snap6.jpg pictures  
dbda@dbda:~$ tree  
.  
├── Desktop  
├── Documents  
├── Downloads  
├── film1.avi  
├── film2.avi  
├── film3.avi  
├── film4.avi  
├── film5.avi  
├── film6.avi  
├── music  
│   ├── songs1.mp3  
│   ├── songs2.mp3  
│   ├── songs3.mp3  
│   ├── songs4.mp3  
│   ├── songs5.mp3  
│   └── songs6.mp3  
├── Music  
└── pictures  
    ├── snap1.jpg  
    ├── snap2.jpg  
    ├── snap3.jpg  
    ├── snap4.jpg  
    ├── snap5.jpg  
    └── snap6.jpg
```

```
dbda@dbda:~$ mv film1.avi film2.avi film3.avi film4.avi film5.avi film6.avi videos  
dbda@dbda:~$ tree  
.  
├── Desktop
```



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



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.



```

0 directories, 6 files
dbda@dbda:~/friends$ cp /home/dbda/music/songs3.mp3 /home/dbda/music/songs4.mp3 /home/dbda/family/
dbda@dbda:~/friends$ cp /home/dbda/pictures/snap3.jpg /home/dbda/pictures/snap4.jpg /home/dbda/f
family/ friends/
dbda@dbda:~/friends$ cp /home/dbda/pictures/snap3.jpg /home/dbda/pictures/snap4.jpg /home/dbda/family/
dbda@dbda:~/friends$ cp /home/dbda/videos/film3.avi /home/dbda/videos/film4.avi /home/dbda/family/
dbda@dbda:~/friends$ cd ..
dbda@dbda:~$ cd family
dbda@dbda:~/family$ ls
film3.avi film4.avi snap3.jpg snap4.jpg songs3.mp3 songs4.mp3
dbda@dbda:~/family$ tree
.
├── film3.avi
├── film4.avi
├── snap3.jpg
├── snap4.jpg
├── songs3.mp3
└── songs4.mp3

```

```

0 directories, 6 files
dbda@dbda:~/family$ cp /home/dbda/music/songs5.mp3 /home/dbda/music/songs6.mp3 /home/dbda/family/
dbda@dbda:~/family$ cp /home/dbda/pictures/snap5.jpg /home/dbda/pictures/snap6.jpg /home/dbda/work/
dbda@dbda:~/family$ cp /home/dbda/videos/film5.avi /home/dbda/videos/film6.avi /home/dbda/work/
dbda@dbda:~/family$ cp /home/dbda/family/songs5.mp3 /home/dbda/family/songs6.mp3 /home/dbda/work/
dbda@dbda:~/family$ cd ..
dbda@dbda:~$ ls
Desktop Documents Downloads family friends music Music pictures Pictures Public snap Templates v
dbda@dbda:~$ cd work
dbda@dbda:~/work$ ls
film5.avi film6.avi snap5.jpg snap6.jpg songs5.mp3 songs6.mp3
dbda@dbda:~/work$ tree
.
├── film5.avi
├── film6.avi
├── snap5.jpg
├── snap6.jpg
├── songs5.mp3
└── songs6.mp3

```

6. Delete all files in family subdirectory.



```

dbda@dbda: ~/family
dbda@dbda:~/family$ tree
.
├── film3.avi
├── film4.avi
├── snap3.jpg
├── snap4.jpg
├── songs3.mp3
└── songs4.mp3

0 directories, 6 files
dbda@dbda:~/family$ rm film3.avi film4.avi snap3.jpg s
snap3.jpg snap4.jpg songs3.mp3 songs4.mp3
dbda@dbda:~/family$ rm film3.avi film4.avi snap3.jpg snap4.jpg songs3.mp3 songs4.mp3
dbda@dbda:~/family$ tree
.

```

7. Delete friends subdirectory

```
dbda@dbda: ~  
dbda@dbda:~$ cd friends  
dbda@dbda:~/friends$ tree  
.  
├── film1.avi  
├── film2.avi  
├── snap1.jpg  
├── snap2.jpg  
├── songs1.mp3  
└── songs2.mp3  
  
0 directories, 6 files  
dbda@dbda:~/friends$ cd ..  
dbda@dbda:~$ rm -r friends  
dbda@dbda:~$ cd friends  
bash: cd: friends: No such file or directory
```

## 8. Create user tom , bob , sam , prince

```
dbda@dbda: ~  
dbda@dbda:~$ sudo adduser bob  
[sudo] password for dbda:  
info: Adding user 'bob' ...  
info: Selecting UID/GID from range 1000 to 59999 ...  
info: Adding new group 'bob' (1002) ...  
info: Adding new user 'bob' (1002) with group 'bob (1002)' ...  
info: Creating home directory '/home/bob' ...  
info: 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 bob  
Enter the new value, or press ENTER for the default  
Full Name []: bob  
Room Number []: 2  
Work Phone []: 2  
Home Phone []: 2  
Other []: 2  
Is the information correct? [Y/n]  
info: Adding new user 'bob' to supplemental / extra groups 'users' ...  
info: Adding user 'bob' to group 'users' ...  
dbda@dbda:~$
```

```
dbda@dbda:~$ sudo adduser sam
info: Adding user `sam' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `sam' (1003) ...
info: Adding new user `sam' (1003) with group `sam (1003)' ...
info: Creating home directory `/home/sam' ...
info: 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 []: 3
  Work Phone []: 3
  Home Phone []: 3
  Other []: 3
Is the information correct? [Y/n]
info: Adding new user `sam' to supplemental / extra groups `users' ...
info: Adding user `sam' to group `users' ...
```

```
dbda@dbda:~$ sudo adduser prince
info: Adding user `prince' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `prince' (1004) ...
info: Adding new user `prince' (1004) with group `prince (1004)' ...
info: Creating home directory `/home/prince' ...
info: 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 []: 4
  Work Phone []: 4
  Home Phone []: 4
  Other []: 4
Is the information correct? [Y/n]
info: Adding new user `prince' to supplemental / extra groups `users' ...
info: Adding user `prince' to group `users' ...
dbda@dbda:~$
```

```
gnome-remote-desktop-plugin:
polkitd:x:987:
rtkit:x:119:
colord:x:120:
gdm:x:121:
nm-openvpn:x:122:
lxd:x:123:
gamemode:x:986:
gnome-initial-setup:x:985:
dbda:x:1000:
tom:x:1001:
bob:x:1002:
sam:x:1003:
prince:x:1004:
dbda@dbda:~$
```

## 9. Create Group dac , dbda ,ditiss

```
dbda@dbda:~$ sudo addgroup dac
info: Selecting GID from range 1000 to 59999 ...
info: Adding group 'dac' (GID 1005) ...
dbda@dbda:~$ sudo addgroup dbda
fatal: The group 'dbda' already exists.
dbda@dbda:~$ sudo delgroup dbda
info: Removing group 'dbda' ...
groupdel: cannot remove the primary group of user 'dbda'
fatal: '/sbin/groupdel dbda' returned error code 8. Exiting.
dbda@dbda:~$ sudo addgroup dbda
fatal: The group 'dbda' already exists.
dbda@dbda:~$ sudo addgroup ditiss
info: Selecting GID from range 1000 to 59999 ...
info: Adding group 'ditiss' (GID 1006) ...
dbda@dbda:~$ cat /etc/passwd
```

## 10. add user

Tom in dac  
Bob in dbda  
Sam in ditiss

```
dbda@dbda:~$ sudo usermod tom -g dac
[sudo] password for dbda:
dbda@dbda:~$ sudo usermod bob -g dbda
dbda@dbda:~$ sudo usermod sam -g ditiss
dbda@dbda:~$ ls -l
total 56
drwxr-xr-x 2 dbda dbda 4096 Sep  1 14:15 Desktop
drwxr-xr-x 2 dbda dbda 4096 Sep  1 14:15 Documents
drwxr-xr-x 2 dbda dbda 4096 Sep  1 14:15 Downloads
drwxrwxr-x 2 dbda dbda 4096 Sep  1 15:55 family
drwxrwxr-x 2 dbda dbda 4096 Sep  1 15:07 music
drwxr-xr-x 2 dbda dbda 4096 Sep  1 14:15 Music
drwxrwxr-x 2 dbda dbda 4096 Sep  1 15:11 pictures
drwxr-xr-x 3 dbda dbda 4096 Sep  1 14:49 Pictures
drwxr-xr-x 2 dbda dbda 4096 Sep  1 14:15 Public
```

## 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@dbda: /tmp/iacsd
dbda@dbda:~$ sudo usermod prince -a -G sudo
dbda@dbda:~$ pwd
/
dbda@dbda:~$ ls
bin          boot        dev         home        lib64       lost+found  mnt        proc       run        sbin.usr-is-merged  srv
bin.usr-is-merged  cdrom      etc         lib         lib.usr-is-merged  media      opt        root       sbin       snap            swa
dbda@dbda:~$ cd tmp
dbda@dbda:tmp$ mkdir iacsd
dbda@dbda:tmp$ cd iacsd
dbda@dbda:tmp/iacsd$ touch project{1..4}
dbda@dbda:tmp/iacsd$ tree
. [error opening dir]
0 directories, 0 files
dbda@dbda:tmp/iacsd$ ls
project1 project2 project3 project4
dbda@dbda:tmp/iacsd$
```



## 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:x:1000:1000:dbda:/home/dbda:/bin/bash
tom:x:1001:1005:tom,1,1,1,1:/home/tom:/bin/bash
bob:x:1002:1000:bob,2,2,2,2:/home/bob:/bin/bash
sam:x:1003:1006:sam,3,3,3,3:/home/sam:/bin/bash
prince:x:1004:1004:prince,4,4,4,4:/home/prince:/bin/bash
dbda@dbda:~$
```

```
dbda@dbda:~$ sudo usermod tom -g dac
[sudo] password for dbda:
dbda@dbda:~$ sudo usermod bob -g dbda
dbda@dbda:~$ sudo usermod sam -g ditiss
dbda@dbda:~$ ls -l
total 56
drwxr-xr-x 2 dbda dbda 4096 Sep  1 14:15 Desktop
drwxr-xr-x 2 dbda dbda 4096 Sep  1 14:15 Documents
drwxr-xr-x 2 dbda dbda 4096 Sep  1 14:15 Downloads
drwxrwxr-x 2 dbda dbda 4096 Sep  1 15:55 family
drwxrwxr-x 2 dbda dbda 4096 Sep  1 15:07 music
drwxr-xr-x 2 dbda dbda 4096 Sep  1 14:15 Music
drwxrwxr-x 2 dbda dbda 4096 Sep  1 15:11 pictures
drwxr-xr-x 3 dbda dbda 4096 Sep  1 14:49 Pictures
drwxr-xr-x 2 dbda dbda 4096 Sep  1 14:15 Public
```

```
prince@dbda:/tmp/iacsd$ ls -l
total 0
-rw-rw-r-- 1 tom dbda 0 Sep  1 16:51 project1
-rw-rw-r-- 1 dbda dbda 0 Sep  1 16:51 project2
-rw-r----- 1 tom dbda 0 Sep  1 16:51 project3
----rwx--- 1 dbda dbda 0 Sep  1 16:51 project4
prince@dbda:/tmp/iacsd$
```