Name : Patil Rutu Sanjay
Roll no : 243536
Assignment no : 01

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:~$ touch Songs{1..6}.mp3
dbda@iacsd:~$ touch Snap{1..6}.jpg
dbda@iacsd:~$ touch Movie{1..6}.avi
dbda@iacsd:~$ ls -l
total 44
drwxrwxr-x 5 dbda dbda 4096 Mar  9 19:57 cdac
drwxrwxr-x 2 dbda dbda 4096 Mar  9 22:50 demo
drwxr-xr-x 2 dbda dbda 4096 Mar  6 22:26 Desktop
drwxr-xr-x 2 dbda dbda 4096 Mar  6 22:26 Documents
drwxr-xr-x 2 dbda dbda 4096 Mar  6 22:26 Downloads
-rw-rw-r-- 1 dbda dbda    0 Mar  9 23:54 Movie1.avi
-rw-rw-r-- 1 dbda dbda    0 Mar  9 23:54 Movie2.avi
-rw-rw-r-- 1 dbda dbda    0 Mar  9 23:54 Movie3.avi
-rw-rw-r-- 1 dbda dbda    0 Mar  9 23:54 Movie4.avi
-rw-rw-r-- 1 dbda dbda    0 Mar  9 23:54 Movie5.avi
-rw-rw-r-- 1 dbda dbda    0 Mar  9 23:54 Movie6.avi
drwxr-xr-x 2 dbda dbda 4096 Mar  6 22:26 Music
drwxr-xr-x 2 dbda dbda 4096 Mar  6 22:26 Pictures
drwxr-xr-x 2 dbda dbda 4096 Mar  6 22:26 Public
drwx------ 3 dbda dbda 4096 Mar  6 22:26 snap
-rw-rw-r-- 1 dbda dbda    0 Mar  9 23:54 Snap1.jpg
-rw-rw-r-- 1 dbda dbda    0 Mar  9 23:54 Snap2.jpg
-rw-rw-r-- 1 dbda dbda    0 Mar  9 23:54 Snap3.jpg
-rw-rw-r-- 1 dbda dbda    0 Mar  9 23:54 Snap4.jpg
-rw-rw-r-- 1 dbda dbda    0 Mar  9 23:54 Snap5.jpg
-rw-rw-r-- 1 dbda dbda    0 Mar  9 23:54 Snap6.jpg
-rw-rw-r-- 1 dbda dbda    0 Mar  9 23:54 Songs1.mp3
-rw-rw-r-- 1 dbda dbda    0 Mar  9 23:54 Songs2.mp3
-rw-rw-r-- 1 dbda dbda    0 Mar  9 23:54 Songs3.mp3
-rw-rw-r-- 1 dbda dbda    0 Mar  9 23:54 Songs4.mp3
-rw-rw-r-- 1 dbda dbda    0 Mar  9 23:54 Songs5.mp3
-rw-rw-r-- 1 dbda dbda    0 Mar  9 23:54 Songs6.mp3
drwxr-xr-x 2 dbda dbda 4096 Mar  6 22:26 Templates
drwxr-xr-x 2 dbda dbda 4096 Mar  6 22:26 Videos
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:~$ mv Songs{1..6}.mp3 Music

dbda@iacsd:~$ mv Snap{1..6}.jpg Pictures

dbda@iacsd:~$ mv Movie{1..6}.avi Videos
```

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

```
dbda@iacsd:~$ mkdir Friends
dbda@iacsd:~$ mkdir Family
dbda@iacsd:~$ mkdir 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.

```
dbda@iacsd:~$ cp Music/Songs{1..2}.mp3 Friends
dbda@iacsd:~$ cp Pictures/Snap{1..2}.jpg Friends
dbda@iacsd:~$ cp Videos/Movie{1..2}.avi Friends
dbda@iacsd:~$ ls -l Friends
total 0
-rw-rw-r-- 1 dbda dbda 0 Mar 10 00:36 Movie1.avi
-rw-rw-r-- 1 dbda dbda 0 Mar 10 00:36 Movie2.avi
-rw-rw-r-- 1 dbda dbda 0 Mar 10 00:36 Snap1.jpg
-rw-rw-r-- 1 dbda dbda 0 Mar 10 00:36 Snap2.jpg
-rw-rw-r-- 1 dbda dbda 0 Mar 10 00:35 Songs1.mp3
-rw-rw-r-- 1 dbda dbda 0 Mar 10 00:35 Songs2.mp3
```

```
dbda@iacsd:~$ cp Music/Songs{3..4}.mp3 Family
dbda@iacsd:~$ cp Pictures/Snap{3..4}.jpg Family
dbda@iacsd:~$ cp Videos/Movie{3..4}.avi Family
dbda@iacsd:~$ ls -l Family
total 0
-rw-rw-r-- 1 dbda dbda 0 Mar 10 00:40 Movie3.avi
-rw-rw-r-- 1 dbda dbda 0 Mar 10 00:40 Movie4.avi
-rw-rw-r-- 1 dbda dbda 0 Mar 10 00:40 Snap3.jpg
-rw-rw-r-- 1 dbda dbda 0 Mar 10 00:40 Snap4.jpg
-rw-rw-r-- 1 dbda dbda 0 Mar 10 00:40 Songs3.mp3
-rw-rw-r-- 1 dbda dbda 0 Mar 10 00:40 Songs4.mp3

dbda@iacsd:~$ cp Music/Songs{5..6}.mp3 Work
dbda@iacsd:~$ cp Pictures/Snap{5..6}.jpg Work
Terminal  d:~$ cp Videos/Movie{5..6}.avi Work
dbda@iacsd:~$ ls -l Work
total 0
-rw-rw-r-- 1 dbda dbda 0 Mar 10 00:44 Movie5.avi
-rw-rw-r-- 1 dbda dbda 0 Mar 10 00:44 Movie6.avi
-rw-rw-r-- 1 dbda dbda 0 Mar 10 00:44 Snap5.jpg
-rw-rw-r-- 1 dbda dbda 0 Mar 10 00:44 Snap6.jpg
-rw-rw-r-- 1 dbda dbda 0 Mar 10 00:43 Songs5.mp3
-rw-rw-r-- 1 dbda dbda 0 Mar 10 00:43 Songs6.mp3
```

6. Delete all files in family subdirectory.

```
dbda@iacsd:~$ cd Family

dbda@iacsd:~/Family$ rm *

dbda@iacsd:~/Family$ cd ..
dbda@iacsd:~$ ls -l Family
total 0
```

## 7. Delete friends subdirectory

```
dbda@iacsd:~$ rm -r Friends
dbda@iacsd:~$ ls -l
total 52
drwxrwxr-x 5 dbda dbda 4096 Mar  9 19:57 cdac
drwxrwxr-x 2 dbda dbda 4096 Mar  9 22:50 demo
drwxr-xr-x 2 dbda dbda 4096 Mar  6 22:26 Desktop
drwxr-xr-x 2 dbda dbda 4096 Mar  6 22:26 Documents
drwxr-xr-x 2 dbda dbda 4096 Mar  6 22:26 Downloads
drwxrwxr-x 2 dbda dbda 4096 Mar 10 00:47 Family
drwxr-xr-x 2 dbda dbda 4096 Mar  9 23:58 Music
drwxr-xr-x 3 dbda dbda 4096 Mar 10 00:05 Pictures
drwxr-xr-x 2 dbda dbda 4096 Mar  6 22:26 Public
drwx------ 4 dbda dbda 4096 Mar 10 00:07 snap
drwxr-xr-x 2 dbda dbda 4096 Mar  6 22:26 Templates
drwxr-xr-x 2 dbda dbda 4096 Mar 10 00:03 Videos
drwxrwxr-x 2 dbda dbda 4096 Mar 10 00:44 Work
```

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

```
dbda@iacsd:~$ sudo adduser tom
[sudo] password for dbda:
Adding user `tom' ...
Adding new group `tom' (1005) ...
Adding new user `tom' (1011) 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 []:
        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' (1006) ...
Adding new user `bob' (1012) with group `bob' ...
bCreating home directory `/home/bob' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
Sorry, passwords do not match.
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 []:
        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' (1007) ...
Adding new user `sam' (1013) 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 []:
        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' (1008) ...
Adding new user `prince' (1014) 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 []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
```

```
tom:x:1011:1005:,,,:/home/tom:/bin/bash
bob:x:1012:1006:,,,:/home/bob:/bin/bash
sam:x:1013:1007:,,,:/home/sam:/bin/bash
prince:x:1014:1008:,,,:/home/prince:/bin/bash
```

## 9. Create Group dac , dbda ,ditiss

```
dbda@iacsd:~$ sudo addgroup dac1
Adding group `dac1' (GID 1010) ...
Done.
```
```
dbda@iacsd:~$ sudo addgroup dbda1
Adding group `dbda1' (GID 1011) ...
Done.
```
```
dbda@iacsd:~$ sudo addgroup ditiss1
Adding group `ditiss1' (GID 1012) ...
Done.
```
```
dac1:x:1010:
dbda1:x:1011:
ditiss1:x:1012:
```

## 10. add user

Tom in dac
Bob in dbda
Sam in ditiss

```
dbda@iacsd:/home$ sudo adduser tom dac1
[sudo] password for dbda:
Adding user `tom' to group `dac1' ...
Adding user tom to group dac1
Done.
dbda@iacsd:/home$ sudo adduser bob dbda1
Adding user `bob' to group `dbda1' ...
Adding user bob to group dbda1
Done.
dbda@iacsd:/home$ sudo adduser sam ditiss1
Adding user `sam' to group `ditiss1' ...
Adding user sam to group ditiss1
Done.
```

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

```
prince@iacsd:/$ cd tmp
prince@iacsd:/tmp$ mkdir iacsd
prince@iacsd:/tmp$ cd iacsd
prince@iacsd:/tmp/iacsd$ touch project-{1..4}.txt
prince@iacsd:/tmp/iacsd$ ls -l
total 0
-rw-rw-r-- 1 prince prince 0 Mar 10 17:14 project-1.txt
-rw-rw-r-- 1 prince prince 0 Mar 10 17:14 project-2.txt
-rw-rw-r-- 1 prince prince 0 Mar 10 17:14 project-3.txt
-rw-rw-r-- 1 prince prince 0 Mar 10 17:14 project-4.txt
```

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.

```
root@iacsd:/home# cd prince
root@iacsd:/home/prince# cd /tmp
root@iacsd:/tmp# cd iacsd
root@iacsd:/tmp/iacsd# ls -l
total 0
-rw-rw-r-- 1 prince prince 0 Mar 10 17:14 project-1.txt
-rw-rw-r-- 1 prince prince 0 Mar 10 17:14 project-2.txt
-rw-rw-r-- 1 prince prince 0 Mar 10 17:14 project-3.txt
-rw-rw-r-- 1 prince prince 0 Mar 10 17:14 project-4.txt
root@iacsd:/tmp/iacsd# chown tom project-1.txt
root@iacsd:/tmp/iacsd# ls -l
total 0
-rw-rw-r-- 1 tom    prince 0 Mar 10 17:14 project-1.txt
-rw-rw-r-- 1 prince prince 0 Mar 10 17:14 project-2.txt
-rw-rw-r-- 1 prince prince 0 Mar 10 17:14 project-3.txt
-rw-rw-r-- 1 prince prince 0 Mar 10 17:14 project-4.txt
```

```
root@iacsd:/tmp/iacsd# chgrp dac1 project-2.txt
root@iacsd:/tmp/iacsd# ls -l
total 0
-rw-rw-r-- 1 tom    prince 0 Mar 10 17:14 project-1.txt
-rw-rw-r-- 1 prince dac1   0 Mar 10 17:14 project-2.txt
-rw-rw-r-- 1 prince prince 0 Mar 10 17:14 project-3.txt
-rw-rw-r-- 1 prince prince 0 Mar 10 17:14 project-4.txt
```

```
root@iacsd:/tmp/iacsd# chown tom project-3.txt
root@iacsd:/tmp/iacsd# ls -ll
total 0
-rw-rw-r-- 1 tom    prince 0 Mar 10 17:14 project-1.txt
-rw-rw-r-- 1 prince dac1   0 Mar 10 17:14 project-2.txt
-rw-rw-r-- 1 tom    prince 0 Mar 10 17:14 project-3.txt
-rw-rw-r-- 1 prince prince 0 Mar 10 17:14 project-4.txt
```
```
root@iacsd:/tmp/iacsd# ls -l
total 0
-rw-rw-r-- 1 tom    prince 0 Mar 10 17:14 project-1.txt
-rw-rw-r-- 1 prince dac1   0 Mar 10 17:14 project-2.txt
-rw------- 1 tom    prince 0 Mar 10 17:14 project-3.txt
-rw-rw-r-- 1 prince prince 0 Mar 10 17:14 project-4.txt
```

```
root@iacsd:/tmp/iacsd# chmod 070 project-4.txt
root@iacsd:/tmp/iacsd# ls -l
total 0
-rw-rw-r-- 1 tom     prince 0 Mar 10 17:14 project-1.txt
-rw-rw-r-- 1 prince dac1   0 Mar 10 17:14 project-2.txt
-rw------- 1 tom     prince 0 Mar 10 17:14 project-3.txt
----rwx--- 1 prince dbda1  0 Mar 10 17:14 project-4.txt
```