


**Q1.** In your home directory, create sets of empty practice files

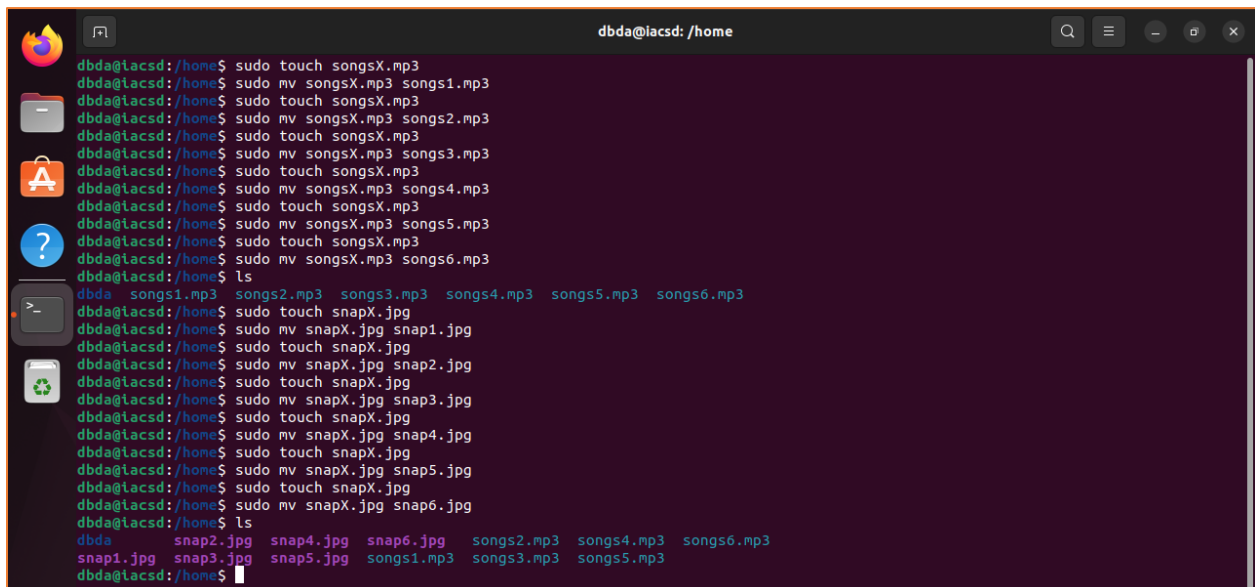
(In each set, replace X with the numbers 1 through 6.)

- Create 6 files with names of the form songsX.mp3.




```
dbda@iacsd: /home$ sudo touch songsX.mp3
dbda@iacsd: /home$ sudo mv songsX.mp3 songs1.mp3
dbda@iacsd: /home$ sudo touch songsX.mp3
dbda@iacsd: /home$ sudo mv songsX.mp3 songs2.mp3
dbda@iacsd: /home$ sudo touch songsX.mp3
dbda@iacsd: /home$ sudo mv songsX.mp3 songs3.mp3
dbda@iacsd: /home$ sudo touch songsX.mp3
dbda@iacsd: /home$ sudo mv songsX.mp3 songs4.mp3
dbda@iacsd: /home$ sudo touch songsX.mp3
dbda@iacsd: /home$ sudo mv songsX.mp3 songs5.mp3
dbda@iacsd: /home$ sudo touch songsX.mp3
dbda@iacsd: /home$ sudo mv songsX.mp3 songs6.mp3
dbda@iacsd: /home$ ls
dbda songs1.mp3 songs2.mp3 songs3.mp3 songs4.mp3 songs5.mp3 songs6.mp3
dbda@iacsd: /home$
```

- Create 6 files with names of the form snapX.jpg.



```
dbda@iacsd: /home$ sudo touch songsX.mp3
dbda@iacsd: /home$ sudo mv songsX.mp3 songs1.mp3
dbda@iacsd: /home$ sudo touch songsX.mp3
dbda@iacsd: /home$ sudo mv songsX.mp3 songs2.mp3
dbda@iacsd: /home$ sudo touch songsX.mp3
dbda@iacsd: /home$ sudo mv songsX.mp3 songs3.mp3
dbda@iacsd: /home$ sudo touch songsX.mp3
dbda@iacsd: /home$ sudo mv songsX.mp3 songs4.mp3
dbda@iacsd: /home$ sudo touch songsX.mp3
dbda@iacsd: /home$ sudo mv songsX.mp3 songs5.mp3
dbda@iacsd: /home$ sudo touch songsX.mp3
dbda@iacsd: /home$ sudo mv songsX.mp3 songs6.mp3
dbda@iacsd: /home$ ls
dbda songs1.mp3 songs2.mp3 songs3.mp3 songs4.mp3 songs5.mp3 songs6.mp3
dbda@iacsd: /home$ sudo touch snapX.jpg
dbda@iacsd: /home$ sudo mv snapX.jpg snap1.jpg
dbda@iacsd: /home$ sudo touch snapX.jpg
dbda@iacsd: /home$ sudo mv snapX.jpg snap2.jpg
dbda@iacsd: /home$ sudo touch snapX.jpg
dbda@iacsd: /home$ sudo mv snapX.jpg snap3.jpg
dbda@iacsd: /home$ sudo touch snapX.jpg
dbda@iacsd: /home$ sudo mv snapX.jpg snap4.jpg
dbda@iacsd: /home$ sudo touch snapX.jpg
dbda@iacsd: /home$ sudo mv snapX.jpg snap5.jpg
dbda@iacsd: /home$ sudo touch snapX.jpg
dbda@iacsd: /home$ sudo mv snapX.jpg snap6.jpg
dbda@iacsd: /home$ ls
dbda snap2.jpg snap4.jpg snap6.jpg songs2.mp3 songs4.mp3 songs6.mp3
snap1.jpg snap3.jpg snap5.jpg songs1.mp3 songs3.mp3 songs5.mp3
dbda@iacsd: /home$
```

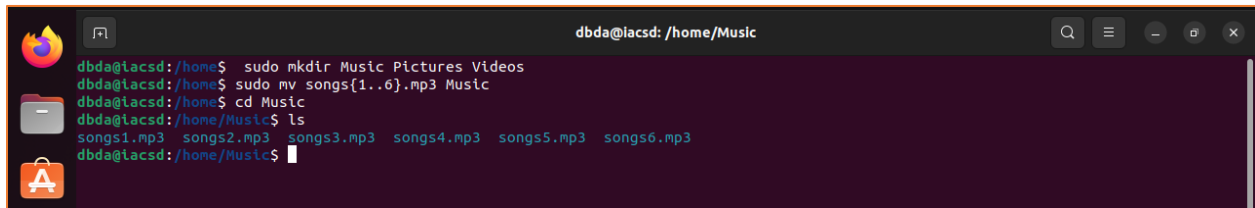
- Create 6 files with names of the form filmX.avi.



```
dbda@iacsd: /home
dbda@iacsd: /home$ sudo touch filmX.avi
dbda@iacsd: /home$ sudo mv filmX.avi film1.avi
dbda@iacsd: /home$ sudo touch filmX.avi
dbda@iacsd: /home$ sudo mv filmX.avi film2.avi
dbda@iacsd: /home$ sudo touch filmX.avi
dbda@iacsd: /home$ sudo mv filmX.avi film3.avi
dbda@iacsd: /home$ sudo touch filmX.avi
dbda@iacsd: /home$ sudo mv filmX.avi film4.avi
dbda@iacsd: /home$ sudo touch filmX.avi
dbda@iacsd: /home$ sudo mv filmX.avi film5.avi
dbda@iacsd: /home$ sudo touch filmX.avi
dbda@iacsd: /home$ sudo mv filmX.avi film6.avi
dbda@iacsd: /home$ ls
dbda  film2.avi  film4.avi  film6.avi  snap2.jpg  snap4.jpg  snap6.jpg  songs2.mp3  songs4.mp3  songs6.mp3
film1.avi  film3.avi  film5.avi  snap1.jpg  snap3.jpg  snap5.jpg  songs1.mp3  songs3.mp3  songs5.mp3
dbda@iacsd: /home$
```

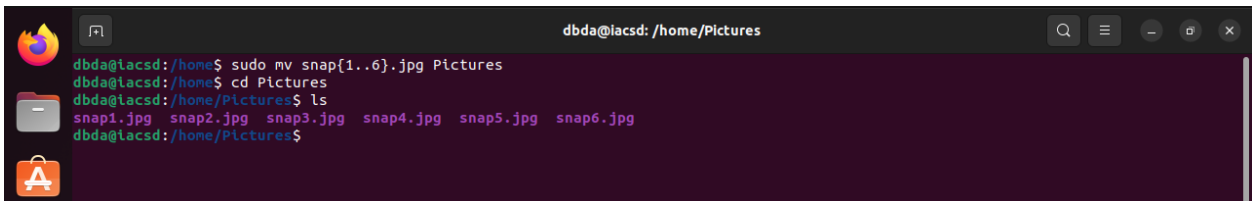
Q2. From your home directory,

- Move songs file into your Music subdirectory.



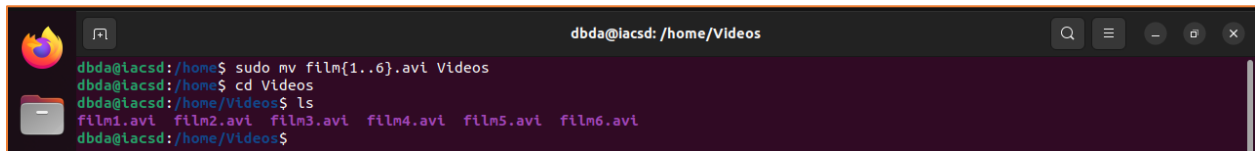
```
dbda@iacsd: /home/Music
dbda@iacsd: /home$ sudo mkdir Music Pictures Videos
dbda@iacsd: /home$ sudo mv songs[1..6].mp3 Music
dbda@iacsd: /home$ cd Music
dbda@iacsd: /home/Music$ ls
songs1.mp3  songs2.mp3  songs3.mp3  songs4.mp3  songs5.mp3  songs6.mp3
dbda@iacsd: /home/Music$
```

- Move snap file into your Pictures subdirectory.



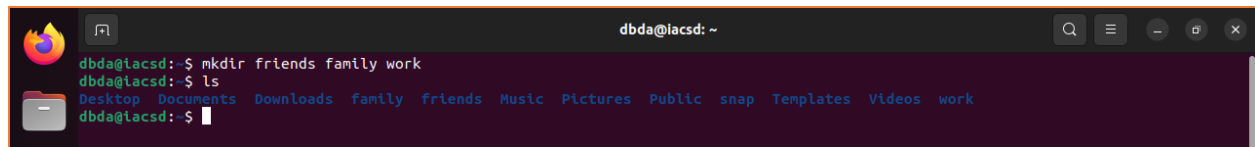
```
dbda@iacsd: /home/Pictures
dbda@iacsd: /home$ sudo mv snap[1..6].jpg Pictures
dbda@iacsd: /home$ cd Pictures
dbda@iacsd: /home/Pictures$ ls
snap1.jpg  snap2.jpg  snap3.jpg  snap4.jpg  snap5.jpg  snap6.jpg
dbda@iacsd: /home/Pictures$
```

- Move your movie files into Videos subdirectory



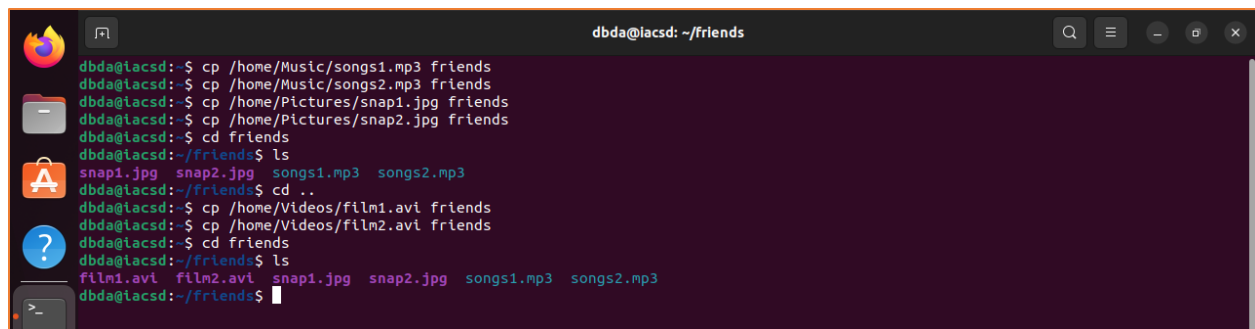
```
dbda@iacsd: /home/Videos
dbda@iacsd: /home$ sudo mv film[1..6].avi Videos
dbda@iacsd: /home$ cd Videos
dbda@iacsd: /home/Videos$ ls
film1.avi  film2.avi  film3.avi  film4.avi  film5.avi  film6.avi
dbda@iacsd: /home/Videos$
```

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



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

**Q.4** Copy files (all types) containing numbers 1 and 2 to the friends folder.



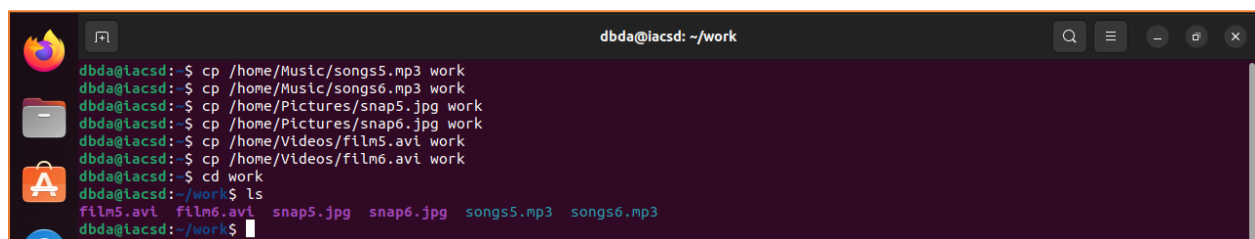
```
dbda@iacsd: ~/friends  
dbda@iacsd:~$ cp /home/Music/songs1.mp3 friends  
dbda@iacsd:~$ cp /home/Music/songs2.mp3 friends  
dbda@iacsd:~$ cp /home/Pictures/snap1.jpg friends  
dbda@iacsd:~$ cp /home/Pictures/snap2.jpg friends  
dbda@iacsd:~$ cd friends  
dbda@iacsd:~/friends$ ls  
snap1.jpg snap2.jpg songs1.mp3 songs2.mp3  
dbda@iacsd:~/friends$ cd ..  
dbda@iacsd:~$ cp /home/Videos/film1.avi friends  
dbda@iacsd:~$ cp /home/Videos/film2.avi friends  
dbda@iacsd:~$ cd friends  
dbda@iacsd:~/friend$ ls  
film1.avi film2.avi snap1.jpg snap2.jpg songs1.mp3 songs2.mp3  
dbda@iacsd:~/friends$
```

Copy files (all types) containing numbers 3 and 4 to the family folder.



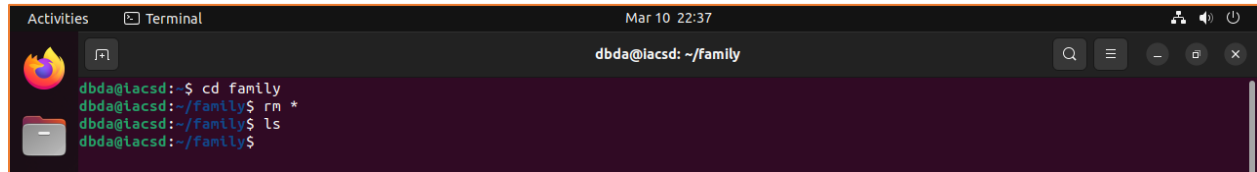
```
dbda@iacsd: ~/family  
dbda@iacsd:~$ cp /home/Music/songs3.mp3 family  
dbda@iacsd:~$ cp /home/Music/songs4.mp3 family  
dbda@iacsd:~$ cp /home/Pictures/snap3.jpg family  
dbda@iacsd:~$ cp /home/Pictures/snap4.jpg family  
dbda@iacsd:~$ cp /home/Videos/film3.avi family  
dbda@iacsd:~$ cp /home/Videos/film4.avi family  
dbda@iacsd:~$ cd family  
dbda@iacsd:~/family$ ls  
film3.avi film4.avi snap3.jpg snap4.jpg songs3.mp3 songs4.mp3  
dbda@iacsd:~/family$
```

Copy files (all types) containing numbers 5 and 6 to the work folder.



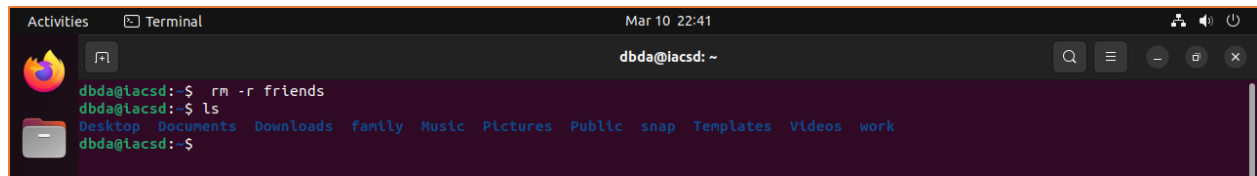
```
dbda@iacsd: ~/work  
dbda@iacsd:~$ cp /home/Music/songs5.mp3 work  
dbda@iacsd:~$ cp /home/Music/songs6.mp3 work  
dbda@iacsd:~$ cp /home/Pictures/snap5.jpg work  
dbda@iacsd:~$ cp /home/Pictures/snap6.jpg work  
dbda@iacsd:~$ cp /home/Videos/film5.avi work  
dbda@iacsd:~$ cp /home/Videos/film6.avi work  
dbda@iacsd:~$ cd work  
dbda@iacsd:~/work$ ls  
film5.avi film6.avi snap5.jpg snap6.jpg songs5.mp3 songs6.mp3  
dbda@iacsd:~/work$
```

**Q.5** Delete all files in family subdirectory.

A terminal window titled 'Terminal' with a timestamp of 'Mar 10 22:37'. The user 'dbda@iacsd' is in the directory '~/family'. The commands executed are: 'cd family', 'rm \*', and 'ls'. The output of 'ls' is empty, indicating all files have been deleted.

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

**Q.6** Delete friends subdirectory.

A terminal window titled 'Terminal' with a timestamp of 'Mar 10 22:41'. The user 'dbda@iacsd' is in the home directory '~'. The commands executed are: 'rm -r friends' and 'ls'. The output of 'ls' shows the directory listing: Desktop, Documents, Downloads, family, Music, Pictures, Public, snap, Templates, Videos, and work.

```
dbda@iacsd:~$ rm -r friends
dbda@iacsd:~$ ls
Desktop Documents Downloads family Music Pictures Public snap Templates Videos work
dbda@iacsd:~$
```

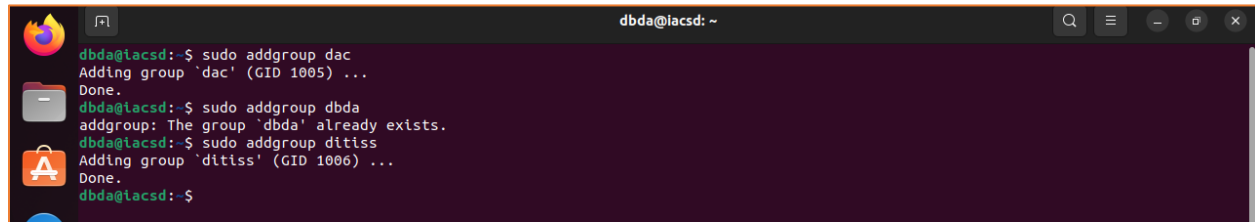
Q.7 Create user tom , bob , sam , prince.

```
dbda@iacsd: ~  
dbda@iacsd:~$ sudo adduser tom  
[sudo] password for dbda:  
Adding user 'tom' ...  
Adding new group 'tom' (1001) ...  
Adding new user 'tom' (1001) 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' (1002) with group 'bob' ...  
Creating home directory '/home/bob' ...  
Copying files from '/etc/skel' ...  
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:~$
```

```
dbda@iacsd: ~  
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:~$
```

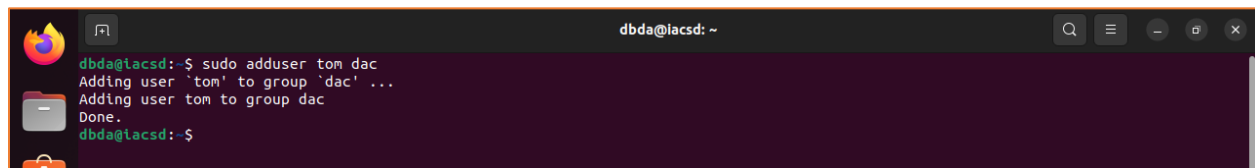
```
dbda@iacsd: ~  
dbda@iacsd:~$ sudo adduser prince  
Adding user 'prince' ...  
Adding new group 'prince' (1004) ...  
Adding new user 'prince' (1004) with group 'prince' ...  
Creating home directory '/home/prince' ...  
Copying files from '/etc/skel' ...  
New password:  
BAD PASSWORD: The password 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:~$
```

**Q.8** Create Group dac , dbda ,ditiss

```
dbda@iacsd: ~  
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.  
dbda@iacsd:~$
```

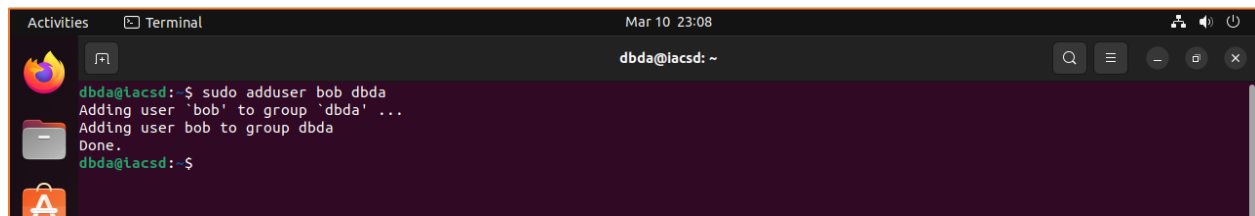
**Q.10** add user

Tom in dac



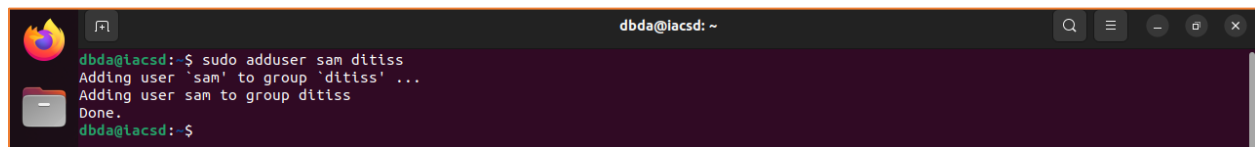
```
dbda@iacsd: ~  
dbda@iacsd:~$ sudo adduser tom dac  
Adding user 'tom' to group 'dac' ...  
Adding user tom to group dac  
Done.  
dbda@iacsd:~$
```

Bob in dbda



```
Activities Terminal Mar 10 23:08  
dbda@iacsd: ~  
dbda@iacsd:~$ sudo adduser bob dbda  
Adding user 'bob' to group 'dbda' ...  
Adding user bob to group dbda  
Done.  
dbda@iacsd:~$
```

Sam in ditiss



```
dbda@iacsd: ~  
dbda@iacsd:~$ sudo adduser sam ditiss  
Adding user 'sam' to group 'ditiss' ...  
Adding user sam to group ditiss  
Done.  
dbda@iacsd:~$
```

**Q.10** 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: /tmp/iacsd
dbda@iacsd:~$ su prince
Password:
prince@iacsd:/home/dbda$ cd ..
prince@iacsd:/home$ cd ..
prince@iacsd:/tmp$ mkdir iacsd
prince@iacsd:/tmp$ cd iacsd
prince@iacsd:/tmp/iacsd$ touch project-{1..4}
prince@iacsd:/tmp/iacsd$ ls
project-1 project-2 project-3 project-4
prince@iacsd:/tmp/iacsd$
```

**Q.11** assign permissions to project files as below

Project-1 – tom should be owner of this

```
dbda@iacsd: /tmp/iacsd
dbda@iacsd:/tmp/iacsd$ ls
project-1 project-2 project-3 project-4
dbda@iacsd:/tmp/iacsd$ ls -l
total 0
-rw-rw-r-- 1 prince prince 0 Mar 11 09:03 project-1
-rw-rw-r-- 1 prince prince 0 Mar 11 09:03 project-2
-rw-rw-r-- 1 prince prince 0 Mar 11 09:03 project-3
-rw-rw-r-- 1 prince prince 0 Mar 11 09:03 project-4
dbda@iacsd:/tmp/iacsd$ sudo chown tom project-1
[sudo] password for dbda:
dbda@iacsd:/tmp/iacsd$ ls -l
total 0
-rw-rw-r-- 1 tom prince 0 Mar 11 09:03 project-1
-rw-rw-r-- 1 prince prince 0 Mar 11 09:03 project-2
-rw-rw-r-- 1 prince prince 0 Mar 11 09:03 project-3
-rw-rw-r-- 1 prince prince 0 Mar 11 09:03 project-4
dbda@iacsd:/tmp/iacsd$
```

Project-2 – dac should be owner of this

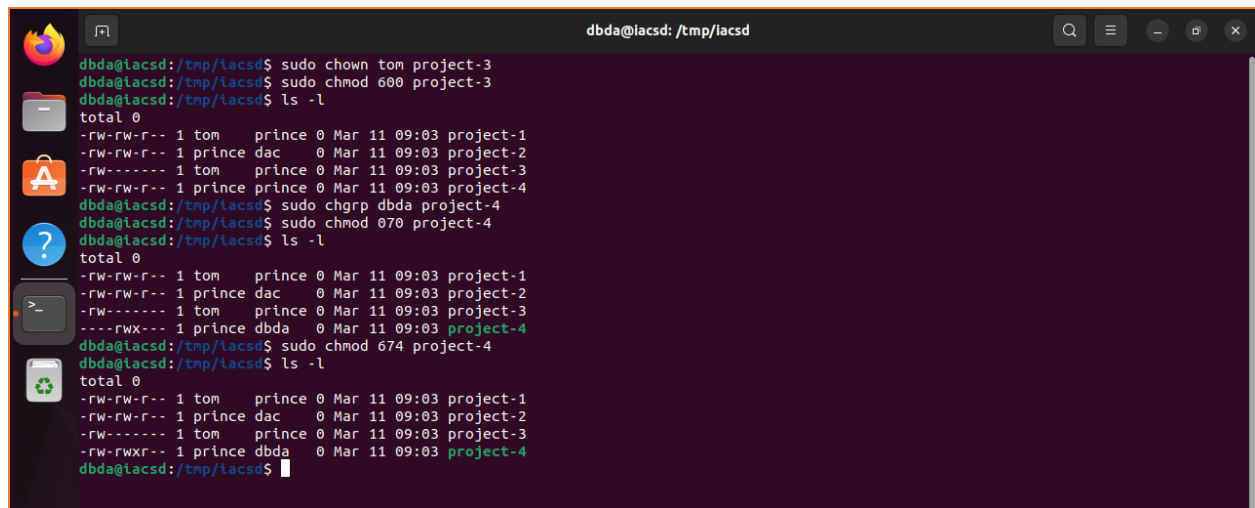
```
-rw-rw-r-- 1 tom prince 0 Mar 11 09:03 project-1
-rw-rw-r-- 1 prince dac 0 Mar 11 09:03 project-2
-rw-rw-r-- 1 prince prince 0 Mar 11 09:03 project-3
-rw-rw-r-- 1 prince prince 0 Mar 11 09:03 project-4
dbda@iacsd:/tmp/iacsd$
```

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

```
dbda@iacsd: /tmp/iacsd
dbda@iacsd:/tmp/iacsd$ sudo chown tom project-3
dbda@iacsd:/tmp/iacsd$ sudo chmod 600 project-3
dbda@iacsd:/tmp/iacsd$ ls -l
total 0
-rw-rw-r-- 1 tom prince 0 Mar 11 09:03 project-1
-rw-rw-r-- 1 prince dac 0 Mar 11 09:03 project-2
-rw----- 1 tom prince 0 Mar 11 09:03 project-3
-rw-rw-r-- 1 prince prince 0 Mar 11 09:03 project-4
dbda@iacsd:/tmp/iacsd$
```



Project-4 – dbda group should have rwx permissions.



```
dbda@lacsdb: /tmp/lacsdb
dbda@lacsdb:/tmp/lacsdb$ sudo chown tom project-3
dbda@lacsdb:/tmp/lacsdb$ sudo chmod 600 project-3
dbda@lacsdb:/tmp/lacsdb$ ls -l
total 0
-rw-rw-r-- 1 tom prince 0 Mar 11 09:03 project-1
-rw-rw-r-- 1 prince dac 0 Mar 11 09:03 project-2
-rw----- 1 tom prince 0 Mar 11 09:03 project-3
-rw-rw-r-- 1 prince prince 0 Mar 11 09:03 project-4
dbda@lacsdb:/tmp/lacsdb$ sudo chgrp dbda project-4
dbda@lacsdb:/tmp/lacsdb$ sudo chmod 070 project-4
dbda@lacsdb:/tmp/lacsdb$ ls -l
total 0
-rw-rw-r-- 1 tom prince 0 Mar 11 09:03 project-1
-rw-rw-r-- 1 prince dac 0 Mar 11 09:03 project-2
-rw----- 1 tom prince 0 Mar 11 09:03 project-3
----rwx--- 1 prince dbda 0 Mar 11 09:03 project-4
dbda@lacsdb:/tmp/lacsdb$ sudo chmod 674 project-4
dbda@lacsdb:/tmp/lacsdb$ ls -l
total 0
-rw-rw-r-- 1 tom prince 0 Mar 11 09:03 project-1
-rw-rw-r-- 1 prince dac 0 Mar 11 09:03 project-2
-rw----- 1 tom prince 0 Mar 11 09:03 project-3
-rw-rwxr-- 1 prince dbda 0 Mar 11 09:03 project-4
dbda@lacsdb:/tmp/lacsdb$
```