```
tushar@tushar-ThinkPad-X230:~$ cd song
tushar@tushar-ThinkPad-X230:~/song$ touch song1.mp3
tushar@tushar-ThinkPad-X230:~/song$ touch song2.mp3
tushar@tushar-ThinkPad-X230:~/song$ touch song3.mp3
tushar@tushar-ThinkPad-X230:~/song$ touch song{4..6}.mp3
tushar@tushar-ThinkPad-X230:~/song$ tree
.
├── song1.mp3
├── song2.mp3
├── song3.mp3
├── song4.mp3
├── song5.mp3
└── song6.mp3

0 directories, 6 files
tushar@tushar-ThinkPad-X230:~/song$ cd ..
tushar@tushar-ThinkPad-X230:~$ mkdir snap
tushar@tushar-ThinkPad-X230:~$ cd snap
tushar@tushar-ThinkPad-X230:~/snap$ touch snap{1..6}.jpg
tushar@tushar-ThinkPad-X230:~/snap$ tree
.
├── snap1.jpg
├── snap2.jpg
├── snap3.jpg
├── snap4.jpg
├── snap5.jpg
└── snap6.jpg

0 directories, 6 files
tushar@tushar-ThinkPad-X230:~/snap$ cd ..
tushar@tushar-ThinkPad-X230:~$ mkdir film
tushar@tushar-ThinkPad-X230:~$ cd film
tushar@tushar-ThinkPad-X230:~/film$ touch film{1..6}.avi
tushar@tushar-ThinkPad-X230:~/film$ tree
.
├── film1.avi
├── film2.avi
├── film3.avi
├── film4.avi
├── film5.avi
└── film6.avi

0 directories, 6 files
tushar@tushar-ThinkPad-X230:~/film$ 
```
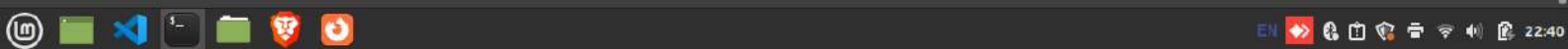
File   Edit   View   Search   Terminal   Help

```
tushar@tushar-ThinkPad-X230:~$ mv song/song2.mp3 song/music/song2.mp3
tushar@tushar-ThinkPad-X230:~$ mv song/song3.mp3 song/music/song3.mp3
tushar@tushar-ThinkPad-X230:~$ mv song/song4.mp3 song/music/song4.mp3
tushar@tushar-ThinkPad-X230:~$ mv song/song5.mp3 song/music/song5.mp3
tushar@tushar-ThinkPad-X230:~$ mv song/song6.mp3 song/music/song6.mp3
tushar@tushar-ThinkPad-X230:~$ cd song
tushar@tushar-ThinkPad-X230:~/song$ tree
.
└── music
    ├── song1.mp3
    ├── song2.mp3
    ├── song3.mp3
    ├── song4.mp3
    ├── song5.mp3
    └── song6.mp3

1 directory, 6 files
tushar@tushar-ThinkPad-X230:~/song$ cd ..
tushar@tushar-ThinkPad-X230:~$ mkdir snap/pictures
tushar@tushar-ThinkPad-X230:~$ cd snap
tushar@tushar-ThinkPad-X230:~/snap$ tree
.
├── pictures
├── snap1.jpg
├── snap2.jpg
├── snap3.jpg
├── snap4.jpg
├── snap5.jpg
└── snap6.jpg

1 directory, 6 files
tushar@tushar-ThinkPad-X230:~/snap$ mv snap/snap1.jpg snap/pictures/snap1.jpg
mv: cannot stat 'snap/snap1.jpg': No such file or directory
tushar@tushar-ThinkPad-X230:~/snap$
```

```
tushar@tushar-ThinkPad-X230:~/snap$ cd ..
tushar@tushar-ThinkPad-X230:~$ mv snap/snap1.jpg snap/pictures/snap1.jpg
tushar@tushar-ThinkPad-X230:~$ cd snap
tushar@tushar-ThinkPad-X230:~/snap$ tree
.
├── pictures
│   └── snap1.jpg
├── snap2.jpg
├── snap3.jpg
├── snap4.jpg
├── snap5.jpg
└── snap6.jpg

1 directory, 6 files
tushar@tushar-ThinkPad-X230:~/snap$ cd ..
tushar@tushar-ThinkPad-X230:~$ mv snap/snap2.jpg snap/pictures/snap2.jpg
tushar@tushar-ThinkPad-X230:~$ mv snap/snap3.jpg snap/pictures/snap3.jpg
tushar@tushar-ThinkPad-X230:~$ mv snap/snap4.jpg snap/pictures/snap4.jpg
tushar@tushar-ThinkPad-X230:~$ mv snap/snap5.jpg snap/pictures/snap5.jpg
tushar@tushar-ThinkPad-X230:~$ mv snap/snap6.jpg snap/pictures/snap6.jpg
tushar@tushar-ThinkPad-X230:~$ cd snap
tushar@tushar-ThinkPad-X230:~/snap$ tree
.
└── pictures
    ├── snap1.jpg
    ├── snap2.jpg
    ├── snap3.jpg
    ├── snap4.jpg
    ├── snap5.jpg
    └── snap6.jpg

1 directory, 6 files
tushar@tushar-ThinkPad-X230:~/snap$
```

File   Edit   View   Search   Terminal   Help

```
tushar@tushar-ThinkPad-X230:~/film$ tree
.
├── film1.avi
├── film2.avi
├── film3.avi
├── film4.avi
├── film5.avi
├── film6.avi
└── video

1 directory, 6 files
tushar@tushar-ThinkPad-X230:~/film$ cd ..
tushar@tushar-ThinkPad-X230:~$ mv film/film1.avi film/video/film1.avi
tushar@tushar-ThinkPad-X230:~$ mv film/film2.avi film/video/film2.avi
tushar@tushar-ThinkPad-X230:~$ mv film/film3.avi film/video/film3.avi
tushar@tushar-ThinkPad-X230:~$ mv film/film4.avi film/video/film4.avi
tushar@tushar-ThinkPad-X230:~$ mv film/film5.avi film/video/film5.avi
tushar@tushar-ThinkPad-X230:~$ mv film/film6.avi film/video/film6.avi
tushar@tushar-ThinkPad-X230:~$ cd film
tushar@tushar-ThinkPad-X230:~/film$ tree
.
└── video
    ├── film1.avi
    ├── film2.avi
    ├── film3.avi
    ├── film4.avi
    ├── film5.avi
    └── film6.avi

1 directory, 6 files
tushar@tushar-ThinkPad-X230:~/film$
```

```
tushar@tushar-ThinkPad-X230:~/film$ cd ..
tushar@tushar-ThinkPad-X230:~$ mkdir friends family work
tushar@tushar-ThinkPad-X230:~$ ls
a.out        Downloads    friends          os1.c              string1.c
%.c          f1cd.l       input1.txt       Pictures           task2
c++.cpp      f2cd.l       input2.txt       pr12.l             Templates
cd04.l       family       lex.yy.c         pr23.l             Unity
cd04.y       file4.l      micromamba       pr34.l             Videos
cd1.c        file4.y      Music            Public             work
CNPR5.C      film         'My project'     'python program'   y.tab.c
Desktop      foex2.c      'My project (1)' snap               y.tab.h
Documents    forex1c      'New Unity Project' song
tushar@tushar-ThinkPad-X230:~$
```

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

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

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.
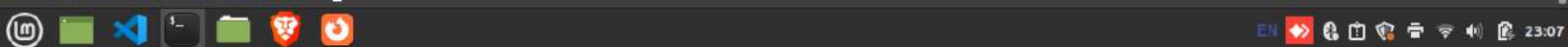
```
tushar@tushar-ThinkPad-X230:~$ cp song/music/song{3,4}.mp3 family
tushar@tushar-ThinkPad-X230:~$ cp song/music/song{5,6}.mp3 work
tushar@tushar-ThinkPad-X230:~$ cp snap/pictures/snap{1,2}.jpg friends
tushar@tushar-ThinkPad-X230:~$ cp snap/pictures/snap{3,4}.jpg family
tushar@tushar-ThinkPad-X230:~$ cp snap/pictures/snap{5,6}.jpg work
tushar@tushar-ThinkPad-X230:~$ cp film/videos/film{1,2}.avi friends
cp: cannot stat 'film/videos/film1.avi': No such file or directory
cp: cannot stat 'film/videos/film2.avi': No such file or directory
tushar@tushar-ThinkPad-X230:~$ cp film/video/film{1,2}.avi friends
tushar@tushar-ThinkPad-X230:~$ cp film/video/film{3,4}.avi family
tushar@tushar-ThinkPad-X230:~$ cp film/video/film{5,6}.avi work
tushar@tushar-ThinkPad-X230:~$ cd song
tushar@tushar-ThinkPad-X230:~/song$ tree
.
└── music
    ├── song1.mp3
    ├── song2.mp3
    ├── song3.mp3
    ├── song4.mp3
    ├── song5.mp3
    └── song6.mp3

1 directory, 6 files
tushar@tushar-ThinkPad-X230:~/song$ cd ..
tushar@tushar-ThinkPad-X230:~$ friends
friends: command not found
tushar@tushar-ThinkPad-X230:~$ cd friends
tushar@tushar-ThinkPad-X230:~/friends$ tree
.
├── film1.avi
├── film2.avi
├── snap1.jpg
├── snap2.jpg
├── song1.mp3
└── song2.mp3

0 directories, 6 files
tushar@tushar-ThinkPad-X230:~/friends$ cd ..
tushar@tushar-ThinkPad-X230:~$ fa
```

File   Edit   View   Search   Terminal   Help

```
tushar@tushar-ThinkPad-X230:~/song$ cd ..
tushar@tushar-ThinkPad-X230:~$ friends
friends: command not found
tushar@tushar-ThinkPad-X230:~$ cd friends
tushar@tushar-ThinkPad-X230:~/friends$ tree
.
├── film1.avi
├── film2.avi
├── snap1.jpg
├── snap2.jpg
├── song1.mp3
└── song2.mp3

0 directories, 6 files
tushar@tushar-ThinkPad-X230:~/friends$ cd ..
tushar@tushar-ThinkPad-X230:~$ cd family
tushar@tushar-ThinkPad-X230:~/family$ tree
.
├── film3.avi
├── film4.avi
├── snap3.jpg
├── snap4.jpg
├── song3.mp3
└── song4.mp3

0 directories, 6 files
tushar@tushar-ThinkPad-X230:~/family$ cd ..
tushar@tushar-ThinkPad-X230:~$ cd work
tushar@tushar-ThinkPad-X230:~/work$ tree
.
├── film5.avi
├── film6.avi
├── snap5.jpg
├── snap6.jpg
├── song5.mp3
└── song6.mp3

0 directories, 6 files
tushar@tushar-ThinkPad-X230:~/work$ 
```

```
tushar@tushar-ThinkPad-X230:~/family$ ls
film3.avi  film4.avi  snap3.jpg  snap4.jpg  song3.mp3  song4.mp3
tushar@tushar-ThinkPad-X230:~/family$ rm *
tushar@tushar-ThinkPad-X230:~/family$ ls
tushar@tushar-ThinkPad-X230:~/family$ cd ..
tushar@tushar-ThinkPad-X230:~$ ls
a.out        Downloads    friends              os1.c             string1.c
%.c          f1cd.l       input1.txt           Pictures          task2
c++.cpp      f2cd.l       input2.txt           pr12.l            Templates
cd04.l       family       lex.yy.c             pr23.l            Unity
cd04.y       file4.l      micromamba           pr34.l            Videos
cd1.c        file4.y      Music                Public            work
CNPR5.c      film         'My project'         'python program'  y.tab.c
Desktop      foex2.c      'My project (1)'     snap              y.tab.h
Documents    forex1c      'New Unity Project'  song
tushar@tushar-ThinkPad-X230:~$ cd friends
tushar@tushar-ThinkPad-X230:~/friends$ ls
film1.avi  film2.avi  snap1.jpg  snap2.jpg  song1.mp3  song2.mp3
tushar@tushar-ThinkPad-X230:~/friends$ cd ..
tushar@tushar-ThinkPad-X230:~$ rm -r friends
tushar@tushar-ThinkPad-X230:~$ ls
a.out        Downloads    input1.txt           Pictures          task2
%.c          f1cd.l       input2.txt           pr12.l            Templates
c++.cpp      f2cd.l       lex.yy.c             pr23.l            Unity
cd04.l       family       micromamba           pr34.l            Videos
cd04.y       file4.l      Music                Public            work
cd1.c        file4.y      'My project'         'python program'  y.tab.c
CNPR5.c      film         'My project (1)'     snap              y.tab.h
Desktop      foex2.c      'New Unity Project'  song
Documents    forex1c      os1.c                string1.c
tushar@tushar-ThinkPad-X230:~$
```

```
tushar@tushar-ThinkPad-X230: ~

File  Edit  View  Search  Terminal  Help

www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:103:106::/nonexistent:/usr/sbin/nologin
syslog:x:104:110::/home/syslog:/usr/sbin/nologin
_apt:x:105:65534::/nonexistent:/usr/sbin/nologin
tss:x:106:111:TPM software stack,,,:/var/lib/tpm:/bin/false
rtkit:x:107:112:RealtimeKit,,,:/proc:/usr/sbin/nologin
systemd-coredump:x:108:113:systemd Core Dumper,,,:/run/systemd:/usr/sbin/nologin
kernoops:x:109:65534:Kernel Oops Tracking Daemon,,,:/:/usr/sbin/nologin
uuidd:x:110:118::/run/uuidd:/usr/sbin/nologin
cups-pk-helper:x:111:114:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
tcpdump:x:112:120::/nonexistent:/usr/sbin/nologin
geoclue:x:113:122::/var/lib/geoclue:/usr/sbin/nologin
avahi-autoipd:x:114:123:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
usbmux:x:115:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
lightdm:x:116:124:Light Display Manager:/var/lib/lightdm:/bin/false
dnsmasq:x:117:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
_flatpak:x:118:127:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
avahi:x:119:128:Avahi mDNS daemon,,,:/var/run/avahi-daemon:/usr/sbin/nologin
saned:x:120:129::/var/lib/saned:/usr/sbin/nologin
colord:x:121:130:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
pulse:x:122:131:PulseAudio daemon,,,:/var/run/pulse:/usr/sbin/nologin
speech-dispatcher:x:123:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
nm-openvpn:x:124:133:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
hplip:x:125:7:HPLIP system user,,,:/run/hplip:/bin/false
tushar:x:1000:1000:tushar gaikwad,,,:/home/tushar:/bin/bash
fwupd-refresh:x:126:135:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
tom:x:1001:1001:,,,:/home/tom:/bin/bash
bob:x:1002:1002:,,,:/home/bob:/bin/bash
sam:x:1003:1003:,,,:/home/sam:/bin/bash
prince:x:1004:1004:,,,:/home/prince:/bin/bash
tushar@tushar-ThinkPad-X230:~$
```

```
tushar@tushar-ThinkPad-X230:~$ sudo addgroup dac
Adding group `dac' (GID 1005) ...
Done.
tushar@tushar-ThinkPad-X230:~$ sudo addgroup dbda
Adding group `dbda' (GID 1006) ...
Done.
tushar@tushar-ThinkPad-X230:~$ sudo addgroup ditiss
Adding group `ditiss' (GID 1007) ...
Done.
tushar@tushar-ThinkPad-X230:~$
```

```
kernoops:x:109:65534:Kernel Oops Tracking Daemon,,,:/:/usr/sbin/nologin
uuidd:x:110:118::/run/uuidd:/usr/sbin/nologin
cups-pk-helper:x:111:114:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
tcpdump:x:112:120::/nonexistent:/usr/sbin/nologin
geoclue:x:113:122::/var/lib/geoclue:/usr/sbin/nologin
avahi-autoipd:x:114:123:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
usbmux:x:115:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
lightdm:x:116:124:Light Display Manager:/var/lib/lightdm:/bin/false
dnsmasq:x:117:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
_flatpak:x:118:127:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
avahi:x:119:128:Avahi mDNS daemon,,,:/var/run/avahi-daemon:/usr/sbin/nologin
saned:x:120:129::/var/lib/saned:/usr/sbin/nologin
colord:x:121:130:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
pulse:x:122:131:PulseAudio daemon,,,:/var/run/pulse:/usr/sbin/nologin
speech-dispatcher:x:123:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
nm-openvpn:x:124:133:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
hplip:x:125:7:HPLIP system user,,,:/run/hplip:/bin/false
tushar:x:1000:1000:tushar gaikwad,,,:/home/tushar:/bin/bash
fwupd-refresh:x:126:135:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
prince:x:1004:1004:,,,:/home/prince:/bin/bash
tom:x:1001:1005:,,,:/home/tom:/bin/bash
bob:x:1002:1006:,,,:/home/bob:/bin/bash
sam:x:1003:1007:,,,:/home/sam:/bin/bash
tushar@tushar-ThinkPad-X230:~$ group tom

Command 'group' not found, did you mean:

  command 'groups' from deb coreutils (8.30-3ubuntu2)
  command 'grop' from deb grop (2:0.10-1.1build1)

Try: sudo apt install <deb name>

tushar@tushar-ThinkPad-X230:~$ groups tom
tom : dac
tushar@tushar-ThinkPad-X230:~$ groups bob
bob : dbda
tushar@tushar-ThinkPad-X230:~$ groups sam
sam : ditiss
tushar@tushar-ThinkPad-X230:~$
```

File Edit View Search Terminal Help

```
prince@tushar-ThinkPad-X230:~$ mkdir iacsd
prince@tushar-ThinkPad-X230:~$ cd iacsd
prince@tushar-ThinkPad-X230:~/iacsd$ touch project{1..4}
prince@tushar-ThinkPad-X230:~/iacsd$ ls
project1  project2  project3  project4
prince@tushar-ThinkPad-X230:~/iacsd$
```

File Edit View Search Terminal Help

```
root@tushar-ThinkPad-X230:/home/prince#
root@tushar-ThinkPad-X230:/home/prince# ls -l
total 4
drwxrwxr-x 2 prince prince 4096 Mar 11 00:09 iacsd
root@tushar-ThinkPad-X230:/home/prince# chown dac project1
chown: invalid user: 'dac'
root@tushar-ThinkPad-X230:/home/prince# cd iacsd
root@tushar-ThinkPad-X230:/home/prince/iacsd# chown dac project1
chown: invalid user: 'dac'
root@tushar-ThinkPad-X230:/home/prince/iacsd# chown tom project1
root@tushar-ThinkPad-X230:/home/prince/iacsd# chgrp dac project2
root@tushar-ThinkPad-X230:/home/prince/iacsd# ls -l
total 0
-rw-rw-r-- 1 tom    prince 0 Mar 11 00:09 project1
-rw-rw-r-- 1 prince dac    0 Mar 11 00:09 project2
-rw-rw-r-- 1 prince prince 0 Mar 11 00:09 project3
-rw-rw-r-- 1 prince prince 0 Mar 11 00:09 project4
root@tushar-ThinkPad-X230:/home/prince/iacsd# chown dbda project4
chown: invalid user: 'dbda'
root@tushar-ThinkPad-X230:/home/prince/iacsd# chmod 764 project4
root@tushar-ThinkPad-X230:/home/prince/iacsd# chown dbda project4
chown: invalid user: 'dbda'
root@tushar-ThinkPad-X230:/home/prince/iacsd# chgrp dbda project4
root@tushar-ThinkPad-X230:/home/prince/iacsd# ls -l
total 0
-rw-rw-r-- 1 tom    prince 0 Mar 11 00:09 project1
-rw-rw-r-- 1 prince dac    0 Mar 11 00:09 project2
-rw-rw-r-- 1 prince prince 0 Mar 11 00:09 project3
-rwxrw-r-- 1 prince dbda   0 Mar 11 00:09 project4
root@tushar-ThinkPad-X230:/home/prince/iacsd#
```