

Lab 4 | Managing files and directories

- Question 1: Creating directories.

```
anand@cis106vm: ~  
anand@cis106vm:~$ cd  
anand@cis106vm:~$ pwd  
/home/anand  
anand@cis106vm:~$ mkdir movies  
anand@cis106vm:~$ mkdir -p movies/{action,romance,adventure,animated,scifi}  
anand@cis106vm:~$ mkdir ~/movies/action/2020 ~/movies/romance/2020 ~/movies/adventure/2020 ~/movies/animated/2020 ~/movies/scifi/2020  
anand@cis106vm:~$ tree ~/movies/  
/home/anand/movies/  
├── action  
│   └── 2020  
├── adventure  
│   └── 2020  
├── animated  
│   └── 2020  
├── romance  
│   └── 2020  
└── scifi  
    └── 2020  
  
10 directories, 0 files  
anand@cis106vm:~$
```

- Question 2: Creating files

```
anand@cis106vm: ~/movies  
anand@cis106vm:~$ cd ~/movies/  
anand@cis106vm:~/movies$ ls  
action  adventure  animated  romance  scifi  
anand@cis106vm:~/movies$ touch action/moviesList.txt  
anand@cis106vm:~/movies$ touch adventure/moviesList.txt  
anand@cis106vm:~/movies$ touch animated/moviesList.txt  
anand@cis106vm:~/movies$ touch romance/moviesList.txt  
anand@cis106vm:~/movies$ touch scifi/moviesList.txt  
anand@cis106vm:~/movies$ touch ~/movies/action/{new.doc,old.pdf}  
anand@cis106vm:~/movies$ touch ~/movies/adventure/{new.doc,old.pdf}  
anand@cis106vm:~/movies$ touch ~/movies/animated/{new.doc,old.pdf}  
anand@cis106vm:~/movies$ touch ~/movies/romance/{new.doc,old.pdf}  
anand@cis106vm:~/movies$ touch ~/movies/scifi/{new.doc,old.pdf}  
anand@cis106vm:~/movies$ ls -lRti  
..  
total 20  
2658060 drwxrwxr-x 3 anand anand 4096 Nov 25 19:59 scifi  
2633027 drwxrwxr-x 3 anand anand 4096 Nov 25 19:59 romance  
2658033 drwxrwxr-x 3 anand anand 4096 Nov 25 19:58 animated  
2653762 drwxrwxr-x 3 anand anand 4096 Nov 25 19:58 adventure  
2633018 drwxrwxr-x 3 anand anand 4096 Nov 25 19:58 action  
  
./scifi:  
total 4
```

```

anand@cis106vm: ~/movies
anand@cis106vm: ~ x anand@cis106vm: ~ x anand@cis106vm: ~ x anand@cis106vm: ... x anand@cis106vm: ~ x
anand@cis106vm:~/movies$ ls -lRtig
.:
total 20
2658060 drwxrwxr-x 3 anand 4096 Nov 25 19:59 scifi
2633027 drwxrwxr-x 3 anand 4096 Nov 25 19:59 romance
2658033 drwxrwxr-x 3 anand 4096 Nov 25 19:58 animated
2653762 drwxrwxr-x 3 anand 4096 Nov 25 19:58 adventure
2633018 drwxrwxr-x 3 anand 4096 Nov 25 19:58 action

./scifi:
total 4
2658325 -rw-rw-r-- 1 anand 0 Nov 25 19:59 new.doc
2658326 -rw-rw-r-- 1 anand 0 Nov 25 19:59 old.pdf
2658314 -rw-rw-r-- 1 anand 0 Nov 25 19:58 moviesList.txt
2658236 drwxrwxr-x 2 anand 4096 Nov 25 19:55 2020

./scifi/2020:
total 0

./romance:
total 4
2658323 -rw-rw-r-- 1 anand 0 Nov 25 19:59 new.doc
2658324 -rw-rw-r-- 1 anand 0 Nov 25 19:59 old.pdf
2658312 -rw-rw-r-- 1 anand 0 Nov 25 19:57 moviesList.txt
2658061 drwxrwxr-x 2 anand 4096 Nov 25 19:55 2020

```

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anand@cis106vm: ~/movies
anand@cis106vm: ~ x anand@cis106vm: ~ x anand@cis106vm: ~ x anand@cis106vm: ... x
./romance:
total 4
2658323 -rw-rw-r-- 1 anand 0 Nov 25 19:59 new.doc
2658324 -rw-rw-r-- 1 anand 0 Nov 25 19:59 old.pdf
2658312 -rw-rw-r-- 1 anand 0 Nov 25 19:57 moviesList.txt
2658061 drwxrwxr-x 2 anand 4096 Nov 25 19:55 2020

./romance/2020:
total 0

./animated:
total 4
2658321 -rw-rw-r-- 1 anand 0 Nov 25 19:58 new.doc
2658322 -rw-rw-r-- 1 anand 0 Nov 25 19:58 old.pdf
2658311 -rw-rw-r-- 1 anand 0 Nov 25 19:57 moviesList.txt
2658167 drwxrwxr-x 2 anand 4096 Nov 25 19:55 2020

./animated/2020:
total 0

./adventure:
total 4
2658319 -rw-rw-r-- 1 anand 0 Nov 25 19:58 new.doc
2658320 -rw-rw-r-- 1 anand 0 Nov 25 19:58 old.pdf
2658318 -rw-rw-r-- 1 anand 0 Nov 25 19:57 moviesList.txt
2658168 drwxrwxr-x 2 anand 4096 Nov 25 19:55 2020

```

```

anand@cis106vm: ~/movies

./animated/2020:
total 0

./adventure:
total 4
2658319 -rw-rw-r-- 1 anand 0 Nov 25 19:58 new.doc
2658320 -rw-rw-r-- 1 anand 0 Nov 25 19:58 old.pdf
2658310 -rw-rw-r-- 1 anand 0 Nov 25 19:57 moviesList.txt
2658285 drwxrwxr-x 2 anand 4096 Nov 25 19:55 2020

./adventure/2020:
total 0

./action:
total 4
2658315 -rw-rw-r-- 1 anand 0 Nov 25 19:58 new.doc
2658317 -rw-rw-r-- 1 anand 0 Nov 25 19:58 old.pdf
2658300 -rw-rw-r-- 1 anand 0 Nov 25 19:57 moviesList.txt
2632451 drwxrwxr-x 2 anand 4096 Nov 25 19:55 2020

./action/2020:
total 0
anand@cis106vm:~/movies$ ls -lRti

```

- Question 3: Removing files

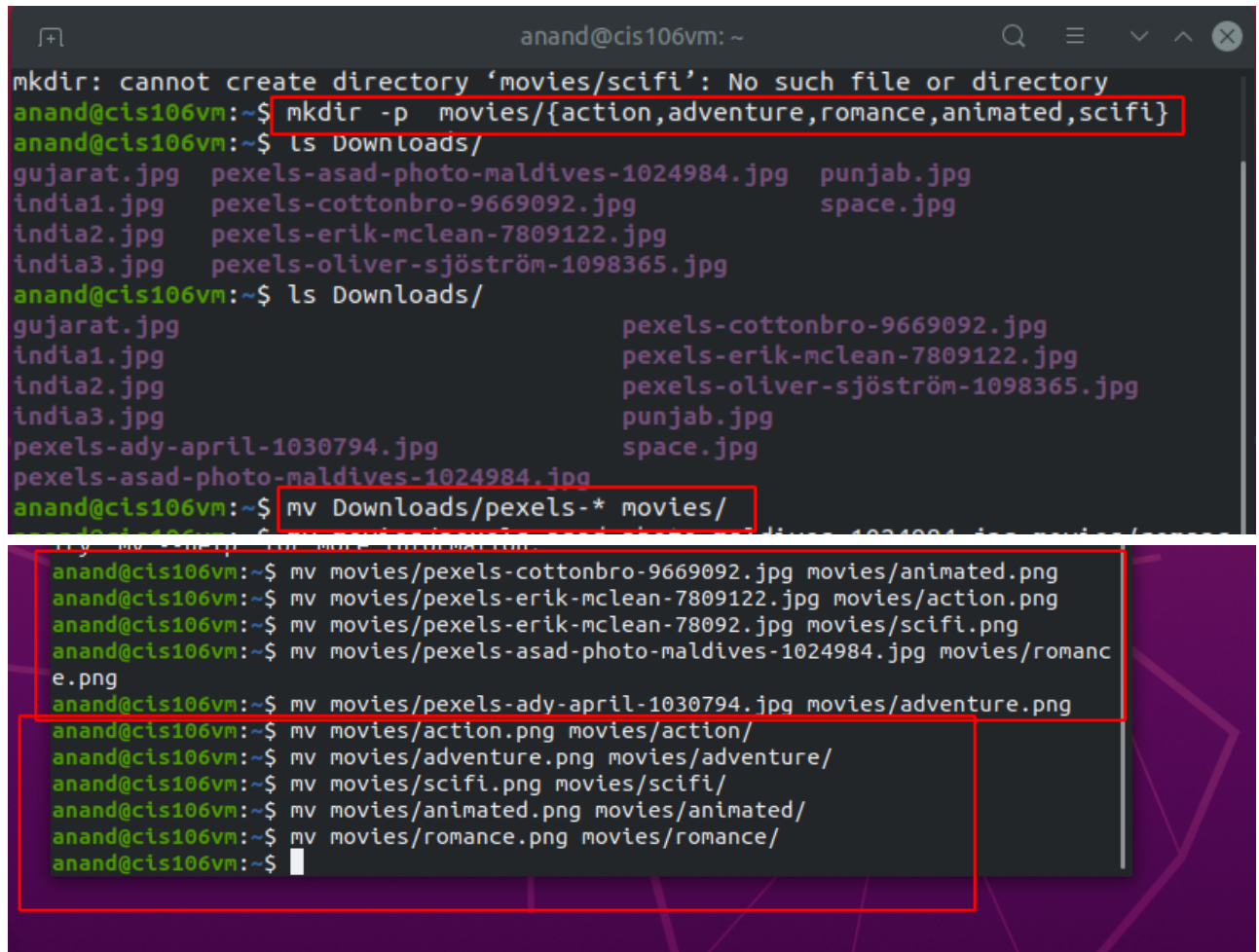
```

anand@cis106vm: ~

anand@cis106vm:~/movies$ cd /usr/share/
anand@cis106vm:/usr/share$ cd ~/movies/action/
anand@cis106vm:~/movies/action$ touch new.docx old.pdf
anand@cis106vm:~/movies/action$ cd -/usr/share
bash: cd: -/: invalid option
cd: usage: cd [-L|[-P [-e]] [-@]] [dir]
anand@cis106vm:~/movies/action$ cd -
/usr/share
anand@cis106vm:/usr/share$ rm ~/movies/action/{new.docx,old.pdf}
anand@cis106vm:/usr/share$ cd usr/bin
bash: cd: usr/bin: No such file or directory
anand@cis106vm:/usr/share$ cd usr/bin/
bash: cd: usr/bin/: No such file or directory
anand@cis106vm:/usr/share$ cd /usr/bin/
anand@cis106vm:/usr/bin$ rm ~/movies/* -r
anand@cis106vm:/usr/bin$ cd
anand@cis106vm:~$ pwd
/home/anand
anand@cis106vm:~$ rm -r /movies
rm: cannot remove '/movies': No such file or directory
anand@cis106vm:~$ rm -r /movies/
rm: cannot remove '/movies/': No such file or directory
anand@cis106vm:~$ rm -r movies/
anand@cis106vm:~$

```

- Question 4: Moving files and directories



```
anand@cis106vm: ~  
mkdir: cannot create directory 'movies/scifi': No such file or directory  
anand@cis106vm:~$ mkdir -p movies/{action,adventure,romance,animated,scifi}  
anand@cis106vm:~$ ls Downloads/  
gujarat.jpg  pexels-asad-photo-maldives-1024984.jpg  punjab.jpg  
india1.jpg   pexels-cottonbro-9669092.jpg             space.jpg  
india2.jpg   pexels-erik-mclean-7809122.jpg  
india3.jpg   pexels-oliver-sjöström-1098365.jpg  
anand@cis106vm:~$ ls Downloads/  
gujarat.jpg                pexels-cottonbro-9669092.jpg  
india1.jpg                 pexels-erik-mclean-7809122.jpg  
india2.jpg                 pexels-oliver-sjöström-1098365.jpg  
india3.jpg                 punjab.jpg  
pexels-ady-april-1030794.jpg space.jpg  
pexels-asad-photo-maldives-1024984.jpg  
anand@cis106vm:~$ mv Downloads/pexels-* movies/  
anand@cis106vm:~$ mv movies/pexels-cottonbro-9669092.jpg movies/animated.png  
anand@cis106vm:~$ mv movies/pexels-erik-mclean-7809122.jpg movies/action.png  
anand@cis106vm:~$ mv movies/pexels-erik-mclean-78092.jpg movies/scifi.png  
anand@cis106vm:~$ mv movies/pexels-asad-photo-maldives-1024984.jpg movies/romance.png  
anand@cis106vm:~$ mv movies/pexels-ady-april-1030794.jpg movies/adventure.png  
anand@cis106vm:~$ mv movies/action.png movies/action/  
anand@cis106vm:~$ mv movies/adventure.png movies/adventure/  
anand@cis106vm:~$ mv movies/scifi.png movies/scifi/  
anand@cis106vm:~$ mv movies/animated.png movies/animated/  
anand@cis106vm:~$ mv movies/romance.png movies/romance/  
anand@cis106vm:~$
```

- Question 5: Copying files

```
anand@cis106vm: ~
anand@cis106vm: ~
anand@cis106vm:~$ cd
anand@cis106vm:~$ cp movies/ Videos/ -r
anand@cis106vm:~$ ls Downloads/
gujarat.jpg  india2.jpg  punjab.jpg  song2.mp3  space.jpg
india1.jpg  india3.jpg  song1.mp3  song3.mp3
anand@cis106vm:~$ cp Downloads/song?.mp3 Music/
anand@cis106vm:~$ ls Downloads/
gujarat.jpg  pexels-barbara-olsen-7880881.mp4  song1.mp3
india1.jpg  pexels-melike-b-9210539.mp4  song2.mp3
india2.jpg  'production ID 4439948.mp4'  song3.mp3
india3.jpg  punjab.jpg  space.jpg
anand@cis106vm:~$ mv Downloads/pexels-barbara-olsen-7880881.mp4 Downloads/Video1
.mp4
anand@cis106vm:~$ mv Downloads/pexels-melike-b-9210539.mp4 Downloads/Video2.mp4
anand@cis106vm:~$ mv Downloads/'production ID 4439948.mp4' Downloads/Video3.mp4
anand@cis106vm:~$ mv Downloads/Video2.mp4 Downloads/video2.mkv
anand@cis106vm:~$ mv Downloads/Video3.mp4 Downloads/new-vid.avi
anand@cis106vm:~$ cp Downloads/*[Vv]* Videos/
anand@cis106vm:~$
```