Question 1: Creating Files and Directories

```
nouran@nouran-VirtualBox:~$ pwd
/home/nouran
nouran@nouran-VirtualBox:~$ mkdir lab4
nouran@nouran-VirtualBox:~$ cd lab4
nouran@nouran-VirtualBox:~/lab4$ mkdir pets docs songs
nouran@nouran-VirtualBox:~/lab4$ mkdir pets/new pets/old docs/new docs/old songs/new songs/old
nouran@nouran-VirtualBox:~/lab4$ toch pets/new/file1

Command 'toch' not found, did you mean:

  command 'touch' from deb coreutils (8.30-3ubuntu2)
  command 'loch' from deb therion-viewer (5.4.4ds1-5ubuntu1)

Try: sudo apt install <deb name>

nouran@nouran-VirtualBox:~/lab4$ touch pets/new/file1
nouran@nouran-VirtualBox:~/lab4$ touch pets/new/file2
nouran@nouran-VirtualBox:~/lab4$ touch pets/new/file3
nouran@nouran-VirtualBox:~/lab4$ touch pets/old/file1
nouran@nouran-VirtualBox:~/lab4$ touch pets/old/file2
nouran@nouran-VirtualBox:~/lab4$ touch pets/old/file3
nouran@nouran-VirtualBox:~/lab4$ touch docs/new/file1
nouran@nouran-VirtualBox:~/lab4$ touch docs/new/file2
nouran@nouran-VirtualBox:~/lab4$ touch docs/new/file3
nouran@nouran-VirtualBox:~/lab4$ touch docs/old/file1
nouran@nouran-VirtualBox:~/lab4$ touch docs/old/file2
nouran@nouran-VirtualBox:~/lab4$ touch docs/old/file3
nouran@nouran-VirtualBox:~/lab4$ touch songs/new/file1
nouran@nouran-VirtualBox:~/lab4$ touch songs/new/file2
nouran@nouran-VirtualBox:~/lab4$ touch songs/new/file3
nouran@nouran-VirtualBox:~/lab4$ touch songs/old/file1
nouran@nouran-VirtualBox:~/lab4$ touch songs/old/file2
nouran@nouran-VirtualBox:~/lab4$ touch songs/old/file3
nouran@nouran-VirtualBox:~/lab4$ ls -R
.:
docs  pets  songs

./docs:
new  old

./docs/new:
file1  file2  file3

./docs/old:
file1  file2  file3

./pets:
new  old

./pets/new:
file1  file2  file3

./pets/old:
file1  file2  file3
```

Question 2: Removing Files and Directories

```
                    nouran@nouran-VirtualBox: /srv            nouran@nouran-VirtualBox: ~/lab4

nouran@nouran-VirtualBox:~/lab4$ cd /srv/
nouran@nouran-VirtualBox:/srv$ rm ~/lab4/pets/new/file1 ~/lab4/pets/new/file2 ~/
lab4/pets/new/file3
nouran@nouran-VirtualBox:/srv$ rm -r ~/lab4/pets/
nouran@nouran-VirtualBox:/srv$ rm -r ~/lab4/docs/
nouran@nouran-VirtualBox:/srv$ rm -r ~/lab4/songs/
nouran@nouran-VirtualBox:/srv$ rm -r ~/lab4/
nouran@nouran-VirtualBox:/srv$
```

```
./docs/old:
file1  file2  file3

./pets:
new  old

./pets/new:
file1  file2  file3

./pets/old:
file1  file2  file3

./songs:
new  old

./songs/new:
file1  file2  file3

./songs/old:
file1  file2  file3
nouran@nouran-VirtualBox:~/lab4$ tree
.
├── docs
│   ├── new
│   │   ├── file1
│   │   ├── file2
│   │   └── file3
│   └── old
│       ├── file1
│       ├── file2
│       └── file3
├── pets
│   ├── new
│   │   ├── file1
│   │   ├── file2
│   │   └── file3
│   └── old
│       ├── file1
│       ├── file2
│       └── file3
└── songs
    ├── new
    │   ├── file1
```

../lab4/q2part2.png)

Question 3: Moving Files and Directories

```
nouran@nouran-VirtualBox:/srv$ cd
nouran@nouran-VirtualBox:~$ wget https://robertalberto.com/public/lab4.zip && unzip la
b4.zip && rm lab4.zip
--2021-03-15 12:57:43--  https://robertalberto.com/public/lab4.zip
Resolving robertalberto.com (robertalberto.com)... 34.66.0.162
Connecting to robertalberto.com (robertalberto.com)|34.66.0.162|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 4209377 (4.0M) [application/zip]
Saving to: 'lab4.zip'

lab4.zip               100%[===================>]   4.01M  4.70MB/s    in 0.9s

2021-03-15 12:57:44 (4.70 MB/s) - 'lab4.zip' saved [4209377/4209377]

Archive:  lab4.zip
   creating: lab4/
 extracting: lab4/.hidden
  inflating: lab4/Pexels.mp4
  inflating: lab4/Silence.mp3
  inflating: lab4/Videoleaf.mp4
  inflating: lab4/another.mp4
  inflating: lab4/audio.mp3
 extracting: lab4/fileA.txt
 extracting: lab4/fileB.txt
 extracting: lab4/filea.txt
 extracting: lab4/image1.jpeg
 extracting: lab4/image2.jpeg
 extracting: lab4/image3.png
 extracting: lab4/image4.png
 extracting: lab4/image5.gif
  inflating: lab4/song.mp3
  inflating: lab4/trivia.txt
 extracting: lab4/triviaXYZ.txt
 extracting: lab4/vita.txt
   creating: lab4/wallpaperslab4/
  inflating: lab4/wallpaperslab4/cpu.jpeg
  inflating: lab4/wallpaperslab4/keyboard.jpeg
  inflating: lab4/wallpaperslab4/pc.jpeg
nouran@nouran-VirtualBox:~$ █
```

```
nouran@nouran-VirtualBox:~$ ls
 books       Desktop            lab4        Pictures    Templates
 cheat       Documents          Music       Public      Videos
"cheat's"    Downloads          mygames.pdf sevenup     website.html
 Cis106      exa_0.9.0-4_amd64.deb  name        snap
nouran@nouran-VirtualBox:~$ mkdir lab4-imgs lab4-audio lab4-video lab4-docs
nouran@nouran-VirtualBox:~$ ls -1 lab4
another.mp4
audio.mp3
filea.txt
fileA.txt
fileB.txt
image1.jpeg
image2.jpeg
image3.png
image4.png
image5.gif
Pexels.mp4
Silence.mp3
song.mp3
trivia.txt
triviaXYZ.txt
Videoleaf.mp4
vita.txt
wallpaperslab4
nouran@nouran-VirtualBox:~$ ls -1x lab4
another.mp4   audio.mp3    filea.txt       fileA.txt      fileB.txt   image1.jpeg
```

```
another.mp4   audio.mp3    filea.txt      fileA.txt      fileB.txt    image1.jpeg
image2.jpeg   image3.png   image4.png     image5.gif     Pexels.mp4   Silence.mp3
song.mp3      trivia.txt   triviaXYZ.txt  Videoleaf.mp4  vita.txt     wallpaperslab4
nouran@nouran-VirtualBox:~$
```

```
                                    6 / 7
```

```
nouran@nouran-VirtualBox:~$ ls lab4-audio/
audio.mp3  Silence.mp3   song.mp3
nouran@nouran-VirtualBox:~$ mv lab4/filea.txt lab4/fileA.txt lab4/fileB.txt lab4/trivi
a.txt  lab4/triviaXYZ.txt lab4/vita.txt lab4-docs
nouran@nouran-VirtualBox:~$ ls lab4-docs
filea.txt  fileA.txt  fileB.txt  trivia.txt  triviaXYZ.txt  vita.txt
nouran@nouran-VirtualBox:~$ mv lab4/another.mp4 lab4/Pexels.mp4 lab4/Videoleaf.mp4 lab
4-video
nouran@nouran-VirtualBox:~$ ls lab4-video
another.mp4  Pexels.mp4  Videoleaf.mp4
```

```
nouran@nouran-VirtualBox:~$ mv lab4/image1.jpeg lab4/image2.jpeg lab4/image3.png lab4/
image4.png lab4/image5.gif lab4-imgs
nouran@nouran-VirtualBox:~$ ls lab4-imgs
image1.jpeg   image2.jpeg   image3.png   image4.png   image5.gif
nouran@nouran-VirtualBox:~$
```

```
nouran@nouran-VirtualBox:~$ mv lab4/wallpaperslab4/ Pictures/NewWallpapers/
nouran@nouran-VirtualBox:~$ ls Pictures/
NewWallpapers
nouran@nouran-VirtualBox:~$ ls Pictures/NewWallpapers/
cpu.jpeg  keyboard.jpeg  pc.jpeg
nouran@nouran-VirtualBox:~$ mv lab4/Lab-4
```

```
mv: cannot stat  /home/nouran/home/nouran/lab4 : No such file or directory
nouran@nouran-VirtualBox:~$ mv ~/Downloads/lab4 ~/Downloads/Lab-4
nouran@nouran-VirtualBox:~$ ls ~/Downloads/Lab-4
```

Question 4: Copying Files and Directories

```
nouran@nouran-VirtualBox:~$ ls Downloads/
city.jpeg  Lab-4  lake.jpeg  linux.gif  tree.jpg
nouran@nouran-VirtualBox:~$ cp Downloads/city.jpeg Downloads/tree.jpg Downloads/lake.j
peg Pictures/NewWallpapers/
nouran@nouran-VirtualBox:~$ ls Pictures/NewWallpapers/
city.jpeg  cpu.jpeg  keyboard.jpeg  lake.jpeg  pc.jpeg  tree.jpg
nouran@nouran-VirtualBox:~$
```

```
Applications  Places                                              En              2:40 PM

                              nouran@nouran-VirtualBox: ~

       nouran@nouran-VirtualBox: ~                    nouran@nouran-VirtualBox: ~

nouran@nouran-VirtualBox:~$ cd Downloads/
nouran@nouran-VirtualBox:~/Downloads$ mkdir carss
nouran@nouran-VirtualBox:~/Downloads$ cd
nouran@nouran-VirtualBox:~$ mv Downloads/car1.jpeg Downloads/car2.jpeg Downloads/car3.
jpeg Downloads/carss
nouran@nouran-VirtualBox:~$ ls carss
ls: cannot access 'carss': No such file or directory
nouran@nouran-VirtualBox:~$ ls Downloads/carss
car1.jpeg  car2.jpeg  car3.jpeg
```

```
       nouran@nouran-VirtualBox: ~                    nouran@nouran-VirtualBox: ~

nouran@nouran-VirtualBox:~$ cp Downloads/carss/ Pictures/
cp: -r not specified; omitting directory 'Downloads/carss/'
nouran@nouran-VirtualBox:~$ cp -r  Downloads/carss/ Pictures/
nouran@nouran-VirtualBox:~$ ls Pictures/
carss  NewWallpapers
nouran@nouran-VirtualBox:~$ rm -r Downloads/carss/
nouran@nouran-VirtualBox:~$ ls Downloads/
city.jpeg  Lab-4  lake.jpeg  linux.gif  tree.jpg
nouran@nouran-VirtualBox:~$
```