



CSE321

Lab Assignment - 01

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Section : 04

Fall'23

Task 1

1.a

- Creating 4 files :
`touch 23241035_1.txt 23241035_2.txt 23241035_3.txt 23241035_4.txt`
- Creating 2 directories :
`mkdir TahiaHossain1 TahiaHossain2`
- Moving :
`mv 23241035_1.txt 23241035_2.txt 23241035_3.txt TahiaHossain1`
- Copying :
`cp
/Users/tahiahossain/Documents/321/Lab_Assignment_1/TahiaHossain1/23241035_1.txt
/Users/tahiahossain/Documents/321/Lab_Assignment_1/TahiaHossain2`

`cp
/Users/tahiahossain/Documents/321/Lab_Assignment_1/TahiaHossain1/23241035_2.txt
/Users/tahiahossain/Documents/321/Lab_Assignment_1/TahiaHossain2`
- New directory :
`mkdir TahiaHossain3`
- Copy dir1 to dir3 :
`cp -r TahiaHossain1 TahiaHossain3`
- Go to directory 3 :
`cd TahiaHossain3`
- Checking permissions :
`ls -l`
- Permission change :
`chmod -R go=rx *`

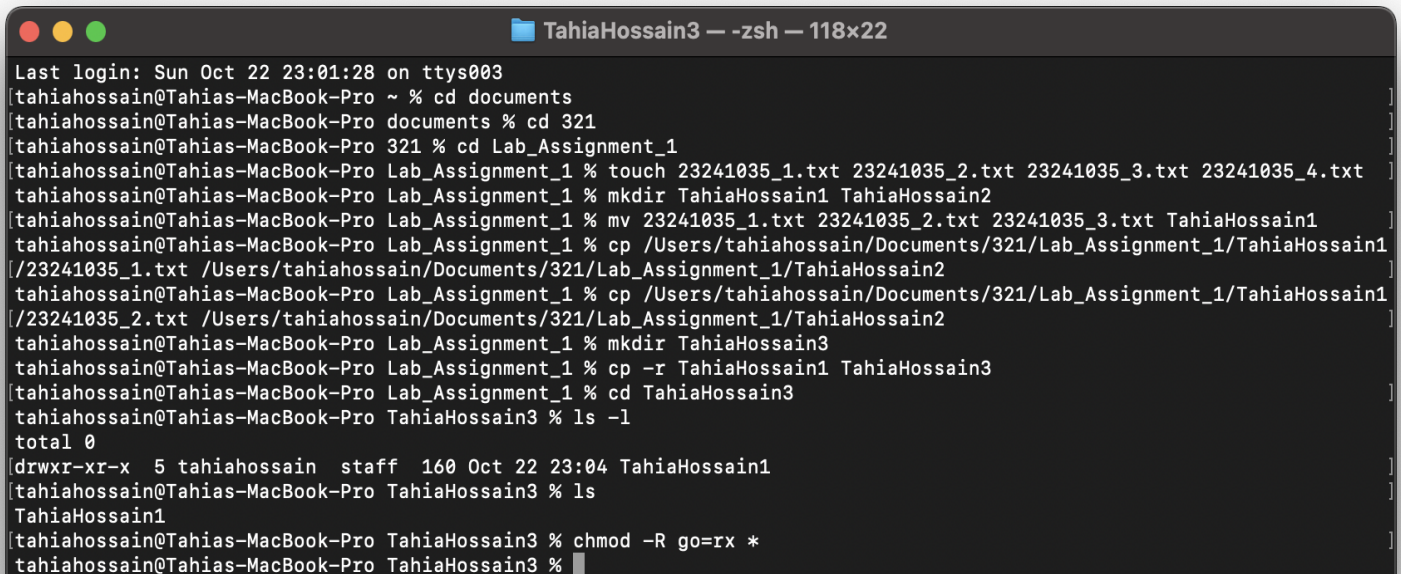
- Going back to one directory and print all the directories and files in the current working directory:

```
cd ..  
ls
```

- Moving and delete:

```
sudo mv TahiaHossain3/  
mv TahiaHossain /
```

```
rm -r *
```



A terminal window titled "TahiaHossain3 — zsh — 118x22" showing a sequence of commands and their outputs. The user navigates through directories, creates files, and manages permissions.

```
Last login: Sun Oct 22 23:01:28 on ttys003  
[tahiahossain@Tahias-MacBook-Pro ~ % cd documents  
[tahiahossain@Tahias-MacBook-Pro documents % cd 321  
[tahiahossain@Tahias-MacBook-Pro 321 % cd Lab_Assignment_1  
[tahiahossain@Tahias-MacBook-Pro Lab_Assignment_1 % touch 23241035_1.txt 23241035_2.txt 23241035_3.txt 23241035_4.txt  
[tahiahossain@Tahias-MacBook-Pro Lab_Assignment_1 % mkdir TahiaHossain1 TahiaHossain2  
[tahiahossain@Tahias-MacBook-Pro Lab_Assignment_1 % mv 23241035_1.txt 23241035_2.txt 23241035_3.txt TahiaHossain1  
[tahiahossain@Tahias-MacBook-Pro Lab_Assignment_1 % cp /Users/tahiahossain/Documents/321/Lab_Assignment_1/TahiaHossain1  
[/23241035_1.txt /Users/tahiahossain/Documents/321/Lab_Assignment_1/TahiaHossain2  
[tahiahossain@Tahias-MacBook-Pro Lab_Assignment_1 % cp /Users/tahiahossain/Documents/321/Lab_Assignment_1/TahiaHossain1  
[/23241035_2.txt /Users/tahiahossain/Documents/321/Lab_Assignment_1/TahiaHossain2  
[tahiahossain@Tahias-MacBook-Pro Lab_Assignment_1 % mkdir TahiaHossain3  
[tahiahossain@Tahias-MacBook-Pro Lab_Assignment_1 % cp -r TahiaHossain1 TahiaHossain3  
[tahiahossain@Tahias-MacBook-Pro Lab_Assignment_1 % cd TahiaHossain3  
[tahiahossain@Tahias-MacBook-Pro TahiaHossain3 % ls -l  
total 0  
[drwxr-xr-x  5 tahiahossain  staff  160 Oct 22 23:04 TahiaHossain1  
[tahiahossain@Tahias-MacBook-Pro TahiaHossain3 % ls  
TahiaHossain1  
[tahiahossain@Tahias-MacBook-Pro TahiaHossain3 % chmod -R go=rx *  
[tahiahossain@Tahias-MacBook-Pro TahiaHossain3 %
```

```
Lab_Assignment_1 — -zsh — 69x7

[tahiahossain@Tahias-MacBook-Pro TahiaHossain3 % ls -l
total 0
drwxr-xr-x  5 tahiahossain  staff  160 Oct 22 23:04 TahiaHossain1
[tahiahossain@Tahias-MacBook-Pro TahiaHossain3 % cd ..
[tahiahossain@Tahias-MacBook-Pro Lab_Assignment_1 % ls
23241035_4.txt TahiaHossain1 TahiaHossain2 TahiaHossain3
tahiahossain@Tahias-MacBook-Pro Lab_Assignment_1 %
```

```
Lab_Assignment_1 — -zsh — 129x27

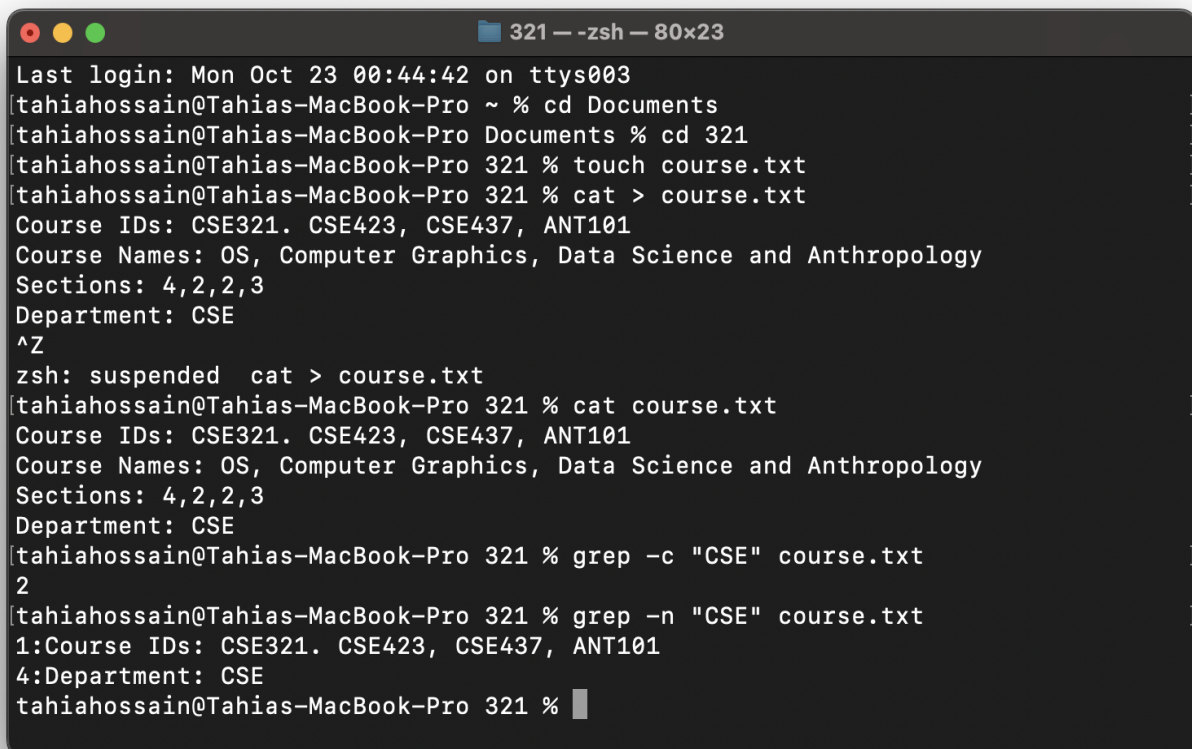
[tahiahossain@Tahias-MacBook-Pro Lab_Assignment_1 % sudo mv TahiaHossain3/
[Password:
usage: mv [-f | -i | -n] [-hv] source target
       mv [-f | -i | -n] [-v] source ... directory
[tahiahossain@Tahias-MacBook-Pro Lab_Assignment_1 % mv TahiaHossain3 /
cp: /TahiaHossain3: Read-only file system
cp: TahiaHossain3: unable to copy extended attributes to /TahiaHossain3: Read-only file system
cp: /TahiaHossain3/TahiaHossain1: No such file or directory
cp: TahiaHossain3/TahiaHossain1: unable to copy extended attributes to /TahiaHossain3/TahiaHossain1: No such file or directory
cp: /TahiaHossain3/TahiaHossain1/23241035_1.txt: No such file or directory
cp: /TahiaHossain3/TahiaHossain1/23241035_2.txt: No such file or directory
cp: /TahiaHossain3/TahiaHossain1/23241035_3.txt: No such file or directory
cp: utimensat: /TahiaHossain3/TahiaHossain1: No such file or directory
cp: chown: /TahiaHossain3/TahiaHossain1: No such file or directory
cp: chmod: /TahiaHossain3/TahiaHossain1: No such file or directory
cp: chflags: /TahiaHossain3/TahiaHossain1: No such file or directory
cp: TahiaHossain3/TahiaHossain1: unable to copy ACL to /TahiaHossain3/TahiaHossain1: No such file or directory
cp: /TahiaHossain3/.DS_Store: No such file or directory
cp: utimensat: /TahiaHossain3: No such file or directory
cp: chown: /TahiaHossain3: No such file or directory
cp: chmod: /TahiaHossain3: No such file or directory
cp: chflags: /TahiaHossain3: No such file or directory
cp: TahiaHossain3: unable to copy ACL to /TahiaHossain3: Read-only file system
mv: /bin/cp TahiaHossain3 /TahiaHossain3: terminated with 1 (non-zero) status
tahiahossain@Tahias-MacBook-Pro Lab_Assignment_1 % rm -r *
zsh: sure you want to delete all 4 files in /Users/tahiahossain/Documents/321/Lab_Assignment_1 [yn]? y
tahiahossain@Tahias-MacBook-Pro Lab_Assignment_1 %
```

1.b

Creating a file containing my running semester's course information (course IDs, Course names, Sections, etc.) and Counting the lines containing the word "CSE" in that file named course.txt :

```
touch course.txt
cat > course.txt
cat course.txt (to view the texts inside the txt file)

grep -c "CSE" course.txt
grep -n "CSE" course.txt
```

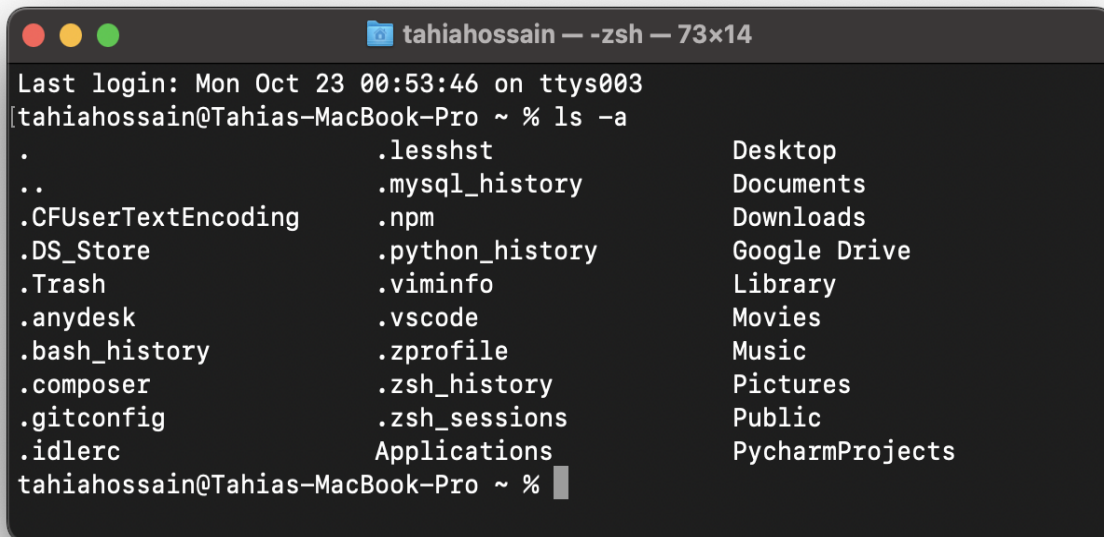


```
321 — -zsh — 80x23
Last login: Mon Oct 23 00:44:42 on ttys003
[tahiahossain@Tahias-MacBook-Pro ~ % cd Documents
[tahiahossain@Tahias-MacBook-Pro Documents % cd 321
[tahiahossain@Tahias-MacBook-Pro 321 % touch course.txt
[tahiahossain@Tahias-MacBook-Pro 321 % cat > course.txt
Course IDs: CSE321. CSE423, CSE437, ANT101
Course Names: OS, Computer Graphics, Data Science and Anthropology
Sections: 4,2,2,3
Department: CSE
^Z
zsh: suspended  cat > course.txt
[tahiahossain@Tahias-MacBook-Pro 321 % cat course.txt
Course IDs: CSE321. CSE423, CSE437, ANT101
Course Names: OS, Computer Graphics, Data Science and Anthropology
Sections: 4,2,2,3
Department: CSE
[tahiahossain@Tahias-MacBook-Pro 321 % grep -c "CSE" course.txt
2
[tahiahossain@Tahias-MacBook-Pro 321 % grep -n "CSE" course.txt
1:Course IDs: CSE321. CSE423, CSE437, ANT101
4:Department: CSE
tahiahossain@Tahias-MacBook-Pro 321 %
```

1.c

Showing all the hidden files in your root directory :

```
ls -a
```

A terminal window titled "tahiahossain — zsh — 73x14" showing the output of the command "ls -a". The output lists hidden files and standard system directories in three columns. The hidden files include ., .., .CFUserTextEncoding, .DS_Store, .Trash, .anydesk, .bash_history, .composer, .gitconfig, .idlerc, .lessht, .mysql_history, .npm, .python_history, .viminfo, .vscode, .zprofile, .zsh_history, .zsh_sessions, and Applications. The standard directories listed are Desktop, Documents, Downloads, Google Drive, Library, Movies, Music, Pictures, Public, and PycharmProjects. The prompt "tahiahossain@Tahias-MacBook-Pro ~ %" is visible at the bottom.

```
tahiahossain@Tahias-MacBook-Pro ~ % ls -a
.          .lessht      Desktop
..         .mysql_history Documents
.CFUserTextEncoding .npm         Downloads
.DS_Store  .python_history Google Drive
.Trash     .viminfo     Library
.anydesk   .vscode      Movies
.bash_history .zprofile    Music
.composer  .zsh_history Pictures
.gitconfig .zsh_sessions Public
.idlerc    Applications PycharmProjects
tahiahossain@Tahias-MacBook-Pro ~ %
```


1.d

Showing only lines 5-17 of a .txt file :

`sed -n '5,17p' course.txt`

```
321 — -zsh — 80x31
Last login: Wed Oct 25 02:14:59 on ttys000
tahiahossain@Tahias-MacBook-Pro ~ % cd documents
tahiahossain@Tahias-MacBook-Pro documents % cd 321
tahiahossain@Tahias-MacBook-Pro 321 % ls
Lab_Assignment_1      task2a.c              task2d
course.txt            task2b.c              task2d.c
lab4                  task2c                task2e
task2a                task2c.c              task2e.c
tahiahossain@Tahias-MacBook-Pro 321 % cat course.txt
Information :
Course IDs: CSE321, CSE423, CSE437, ANT101
Course Names: OS, Computer Graphics, Data Science and Anthropology
Sections: 4,2,2,3
Department: CSE
...
Name : Tahia Hossain
ID : 23241035
email : tahia.hossain@g.bracu.ac.bd
Address : Dhaka
...
School : VNS
College : VNC
BSc. in Computer Science : BRAC University
...
Previously studied at : NIT, Shibpur
Subject : B.Tech in Information Technology
ICCR Scholar
...
The END
tahiahossain@Tahias-MacBook-Pro 321 %
```

```
321 — -zsh — 80x15
tahiahossain@Tahias-MacBook-Pro 321 % sed -n '5,17p' course.txt
Department: CSE
...
Name : Tahia Hossain
ID : 23241035
email : tahia.hossain@g.bracu.ac.bd
Address : Dhaka
...
School : VNS
College : VNC
BSc. in Computer Science : BRAC University
...
Previously studied at : NIT, Shibpur
Subject : B.Tech in Information Technology
tahiahossain@Tahias-MacBook-Pro 321 %
```