OPS102 – Week 2 – File Systems

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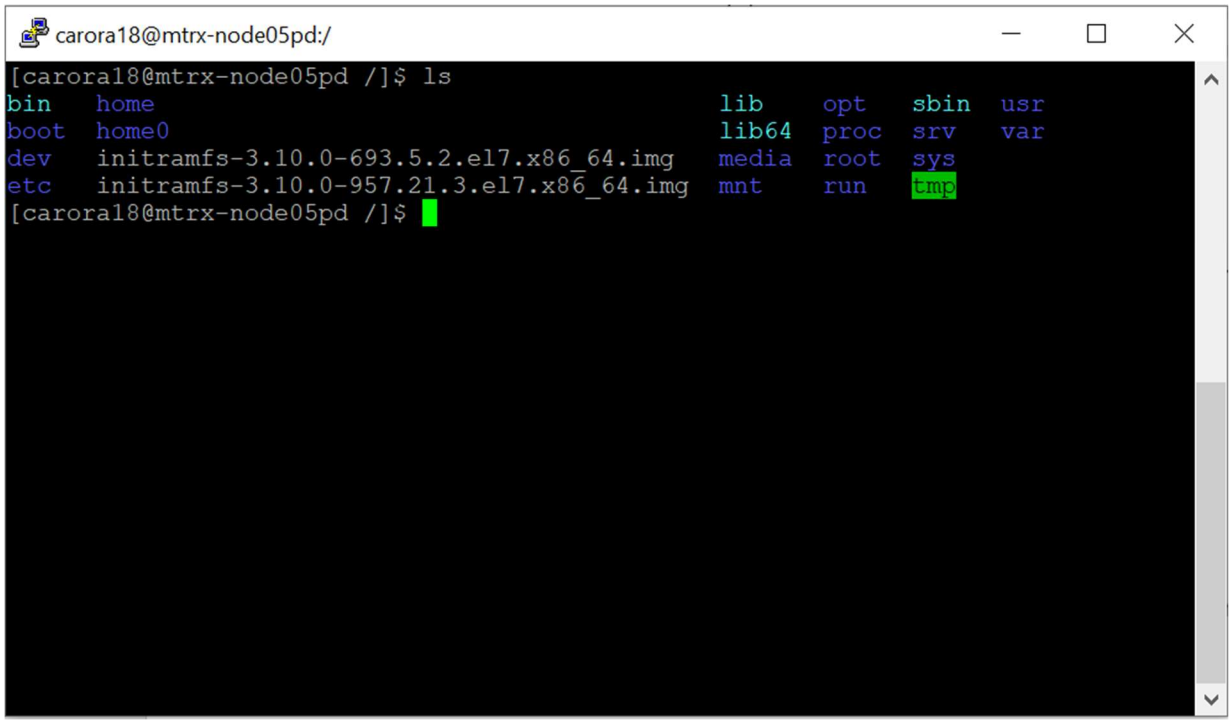
Please refer to File System Basics lecture slides for this lab

Activity 1: File System Hierarchy

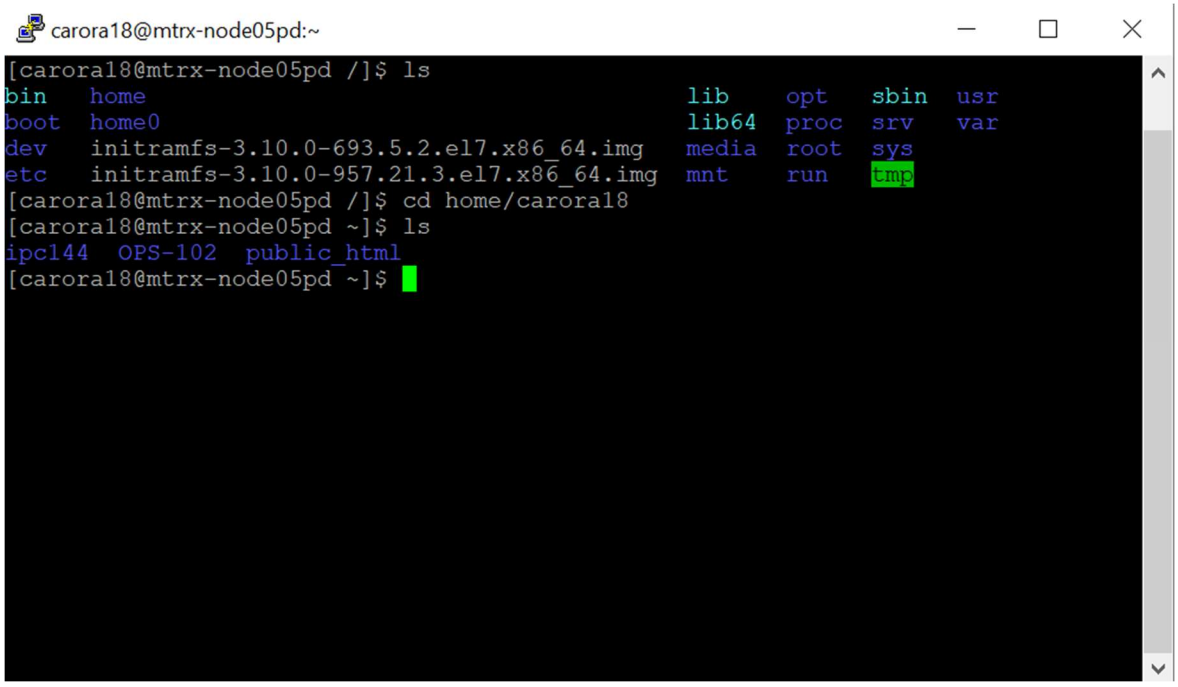
Task 1: Login to your matrix account and list folders in root directory and show the screenshot here. (Your login prompt should be visible in the screenshot)

<Screenshots>

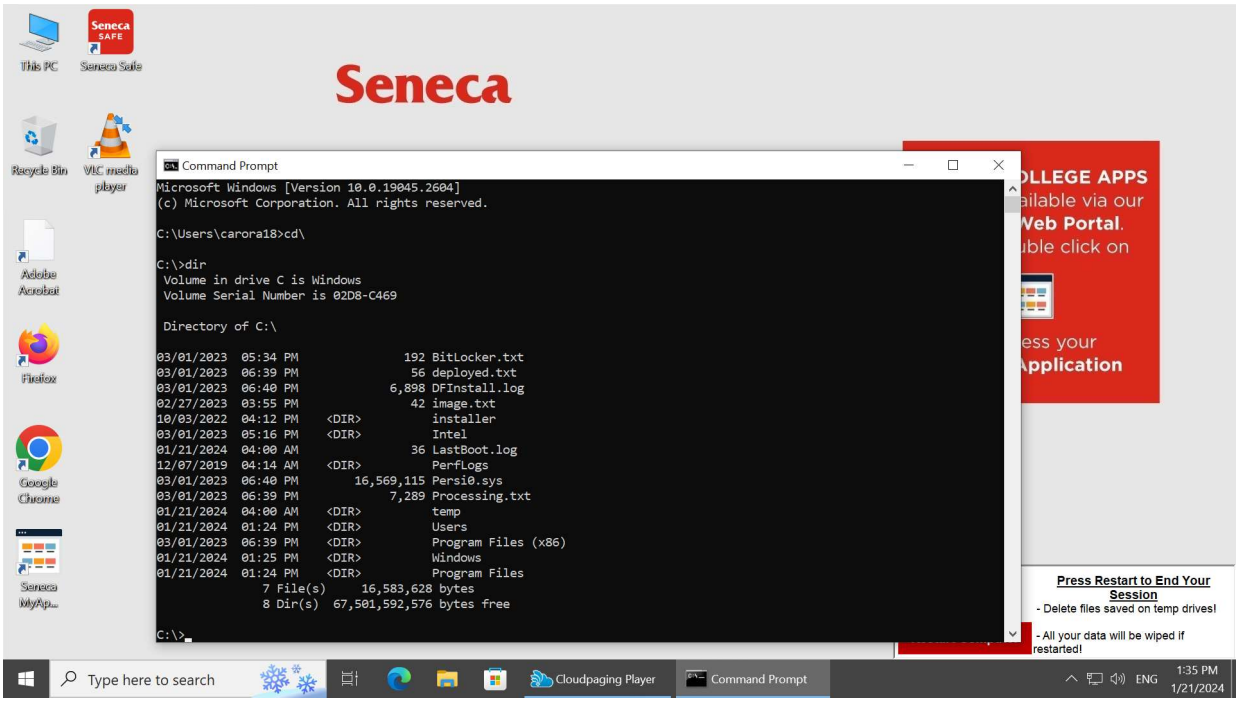


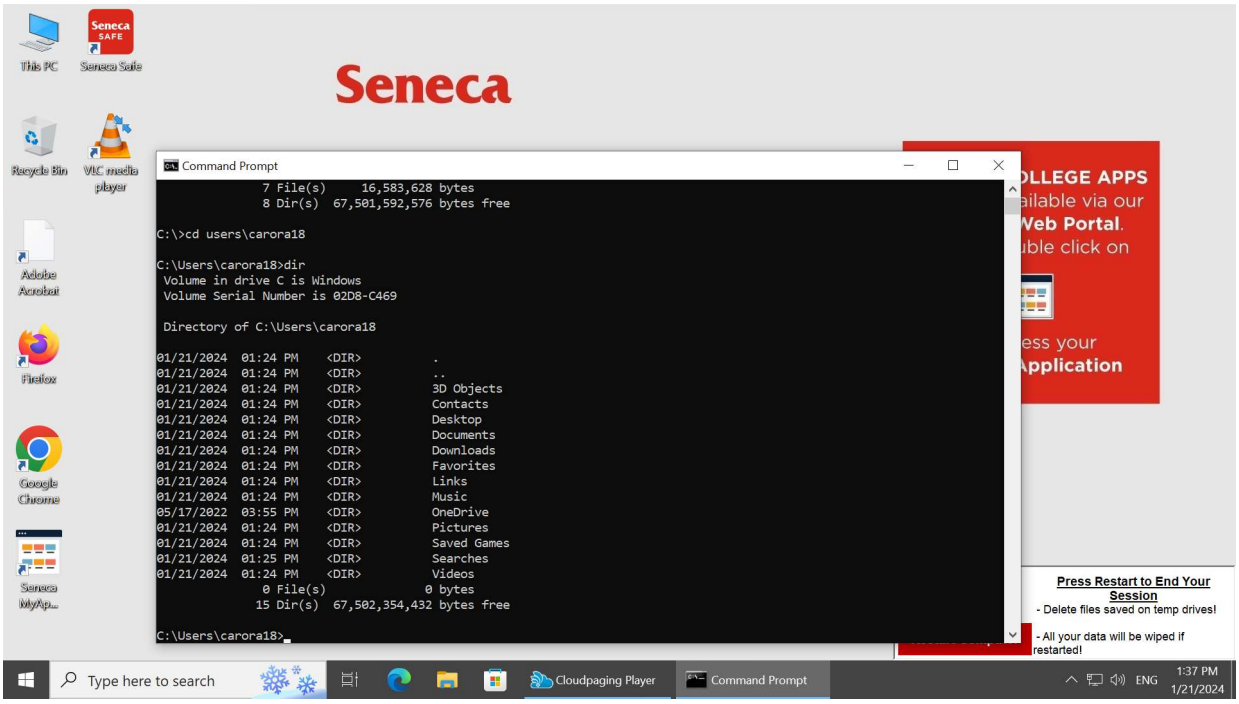
Task 2: Repeat Task 1 for your home directory and show the screenshot here.

<Screenshots>



Task 3: Now login to your Windows account, open command prompt and repeat above two tasks and show screenshots here.
<Screenshots>





Activity 2: Paths

Consider following file hierarchy

```
<home>
|
|-- Courses
|    |
|    |-- OPS102
|    |    |
|    |    |-- Slides
|    |    |-- Labs
|    |-- ULI101
|-- Trips
     |-- Paris
```

Task 1: List the absolute path of each folder shown in above image, for both Linux and Windows operating systems (You can consider this hierarchy in your home directory. Also note that

absolute path starts from root directory (/) on Linux and (C:) on Windows) (you don't need to use terminal or command prompt for these tasks, you can just type the paths):

Absolute Paths on Linux:

<list here>

For Courses: - /home/Courses

For OPS102: - /home/Courses/OPS102

For Slides: - /home/Courses/OPS102/Slides

For Labs: - /home/Courses/OPS102/Labs

For ULI101: - /home/Courses/ULI101

For Trips: - /home/Trips

For Paris: - /home/Trips/Paris

Absolute Paths of Windows:

<list here>

For Courses: - C:\home\Courses>

For OPS102: - C:\home\Courses\OPS102>

For Slides: - C:\home\Courses\OPS102\Slides>

For Labs: - C:\home\Courses\OPS102\Labs>

For ULI101: - C:\home\Courses\ULI101>

For Trips: - C:\home\Trips>

For Paris: - C:\home\Trip\Paris>

Task 2: List relative-to-home paths for "Slides" and "Labs" folders on Linux

<list here>

For Slides: - ~/Courses/OPS102/Slides

For Labs: - ~/Courses/OPS102/Labs

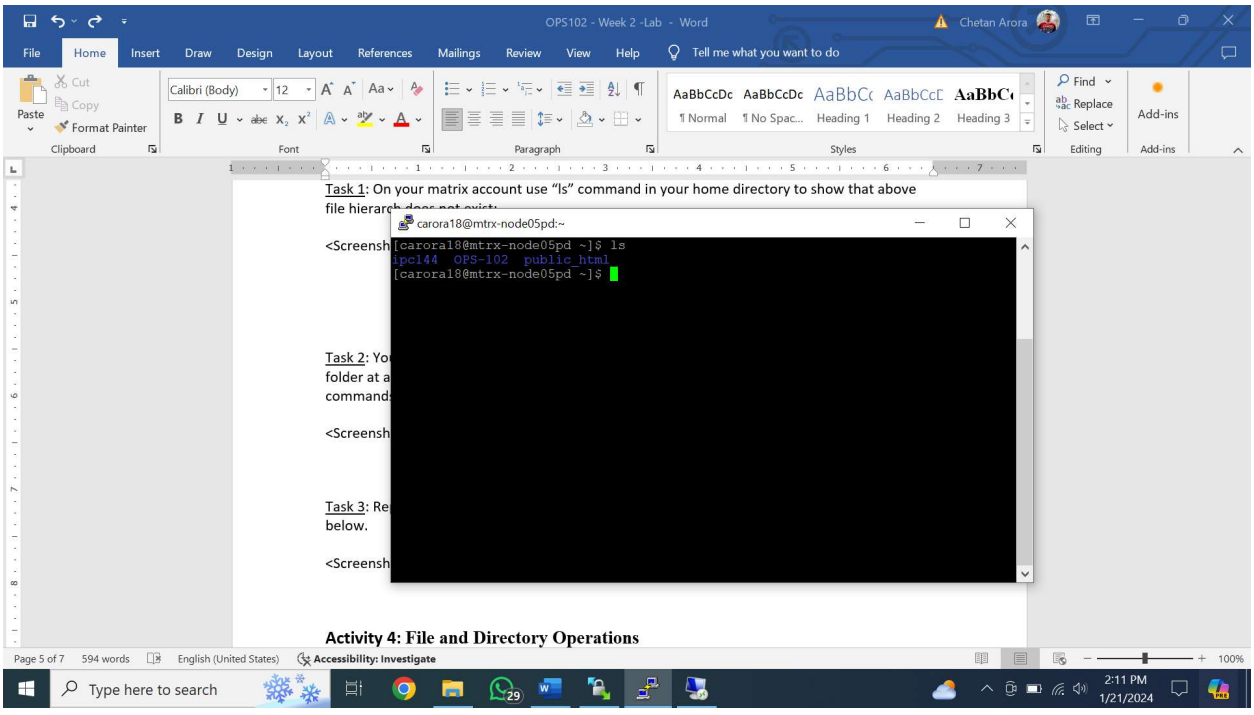
Activity 3: Creating Directories

Consider again the above folder hierarch:

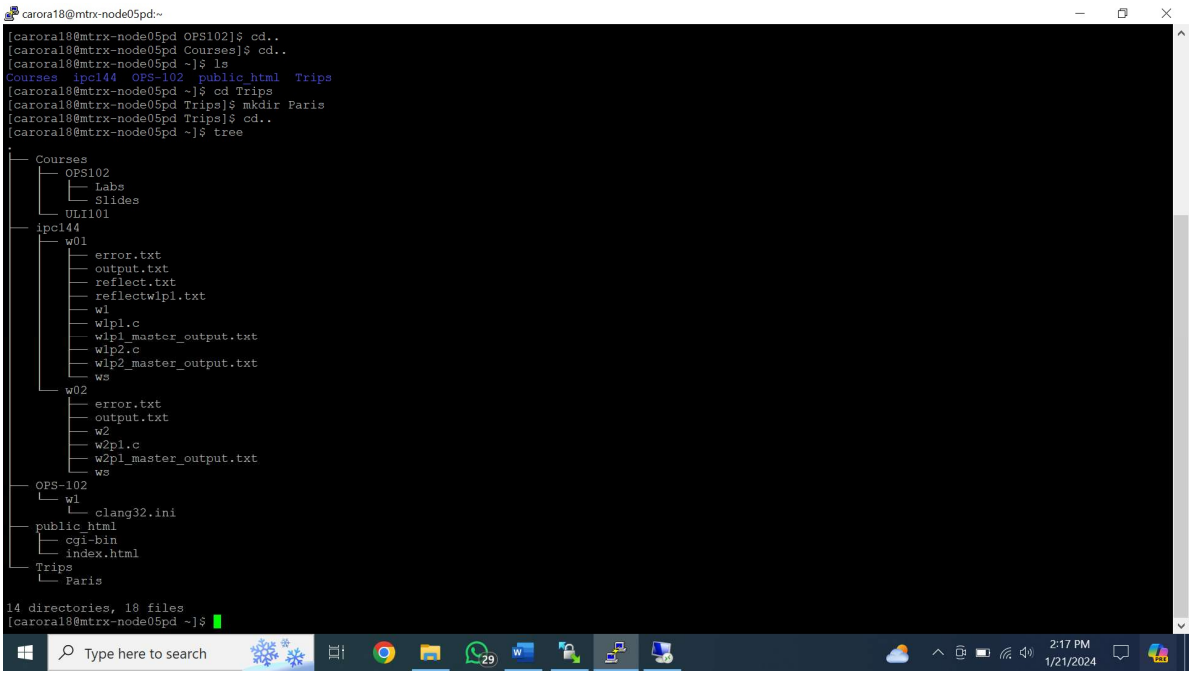
```
<home>
 |
 |-- Courses
 |     |
 |     |-- OPS102
 |     |     |
 |     |     |-- Slides
 |     |     |-- Labs
 |     |-- ULI101
 |-- Trips
       |-- Paris
```

Task 1: On your matrix account use “ls” command in your home directory to show that above file hierarch does not exist:

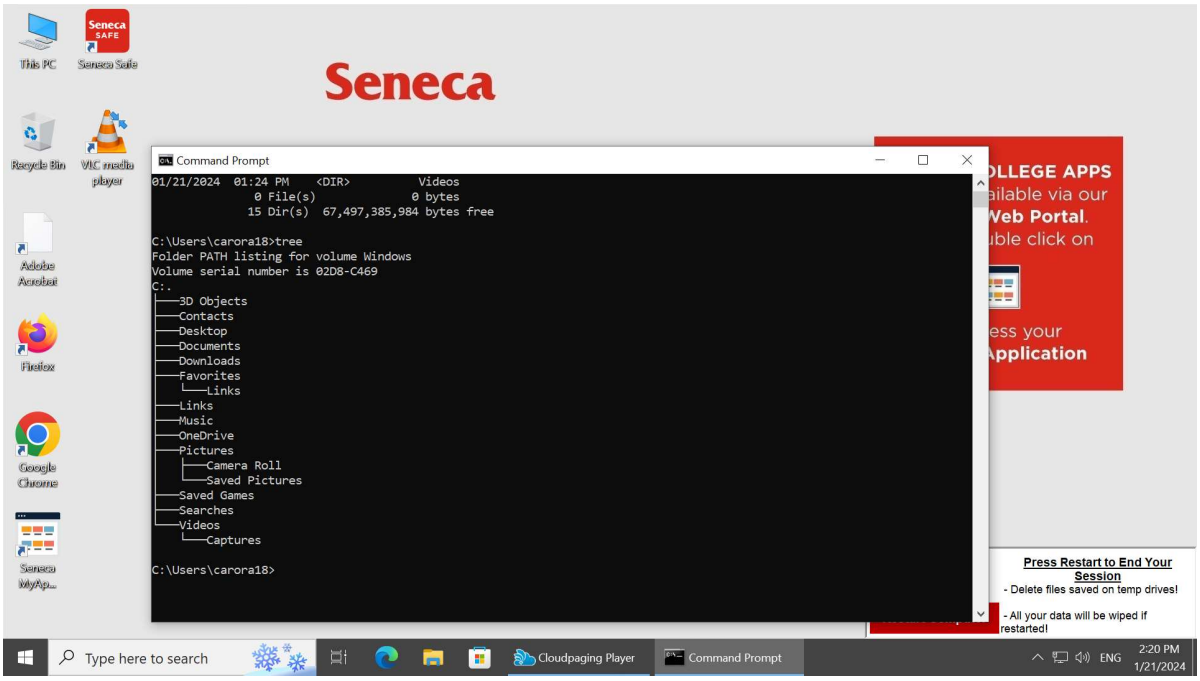
<Screenshots>

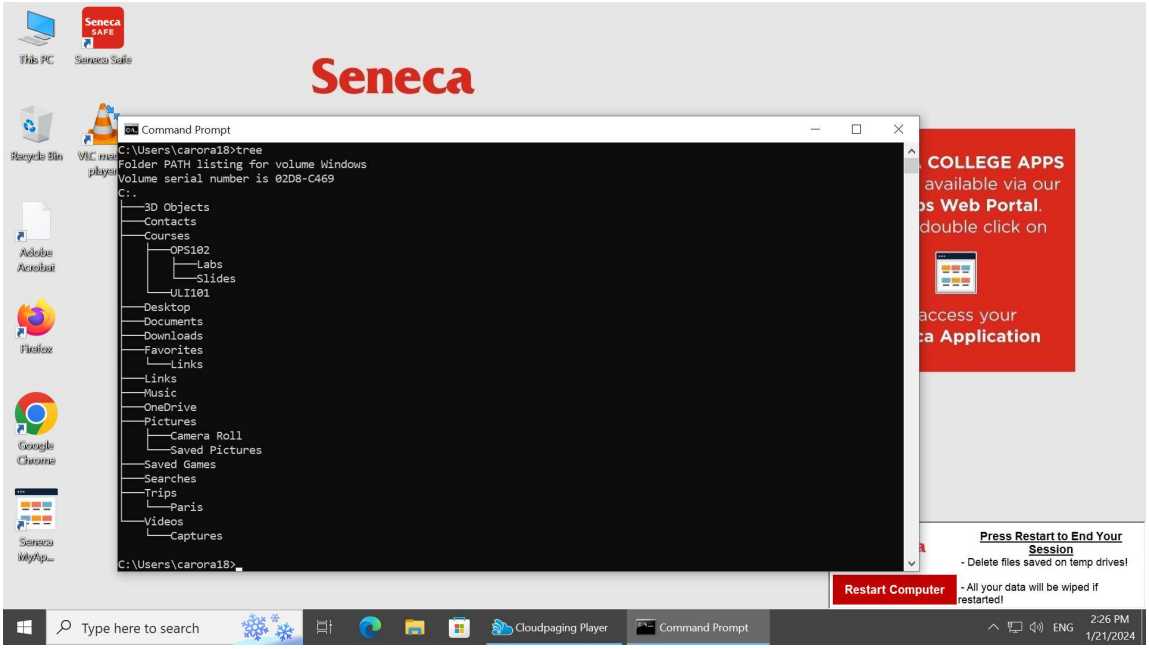


Task 2: You “mkdir” command to create above hierarchy in your home directory, creating one folder at a time. After creating all the hierarchy take one screenshot to show all executed commands.
<Screenshots>



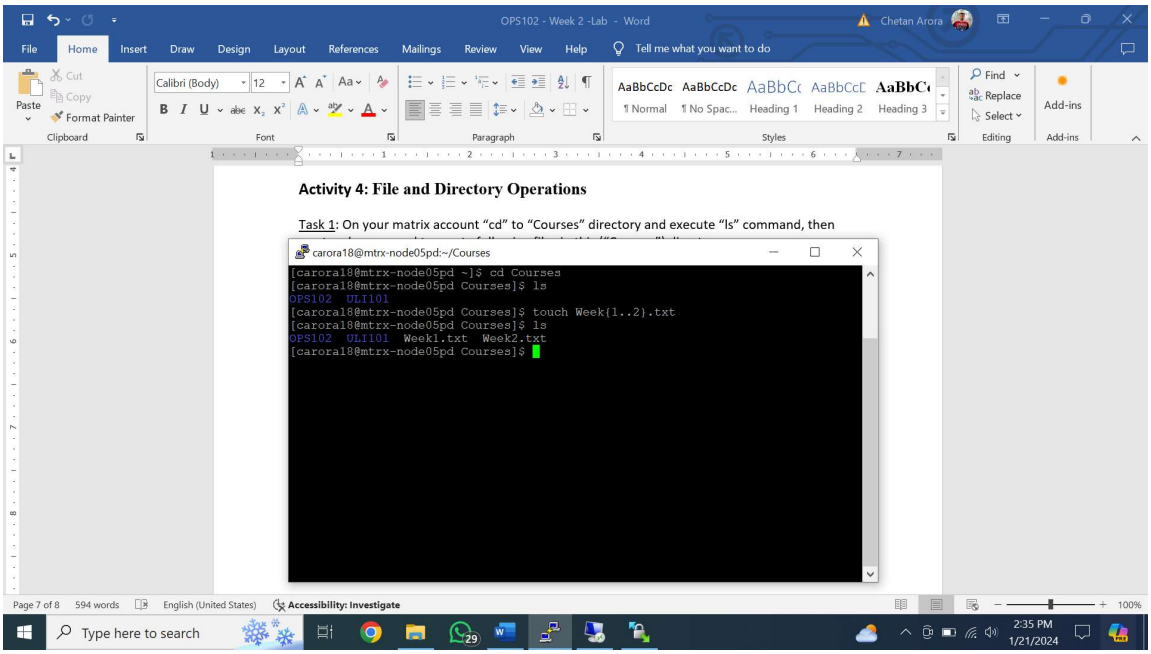
Task 3: Repeat above two tasks for Windows using command prompt and show the screenshots below.
<Screenshots>





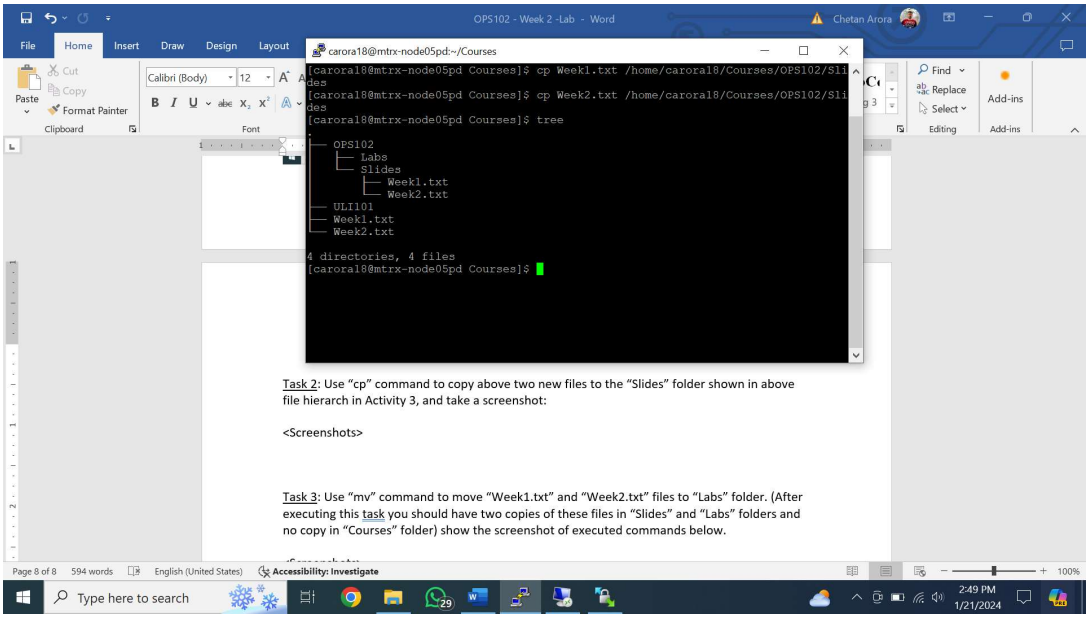
Activity 4: File and Directory Operations

Task 1: On your matrix account “cd” to “Courses” directory and execute “ls” command, then use touch command to create following files in this (“Courses”) directory:
Week1.txt
Week2.txt
Execute “ls” command again to show that these files have been created. Take a Screenshot of commands and add below
<Screenshot>

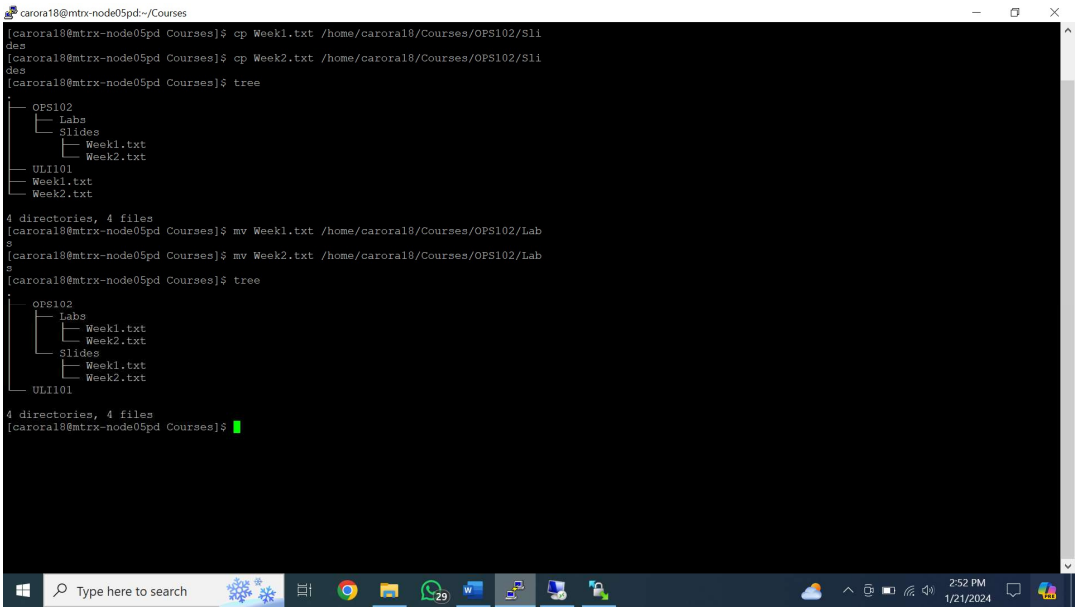


Task 2: Use “cp” command to copy above two new files to the “Slides” folder shown in above file hierarch in Activity 3, and take a screenshot:

<Screenshots>

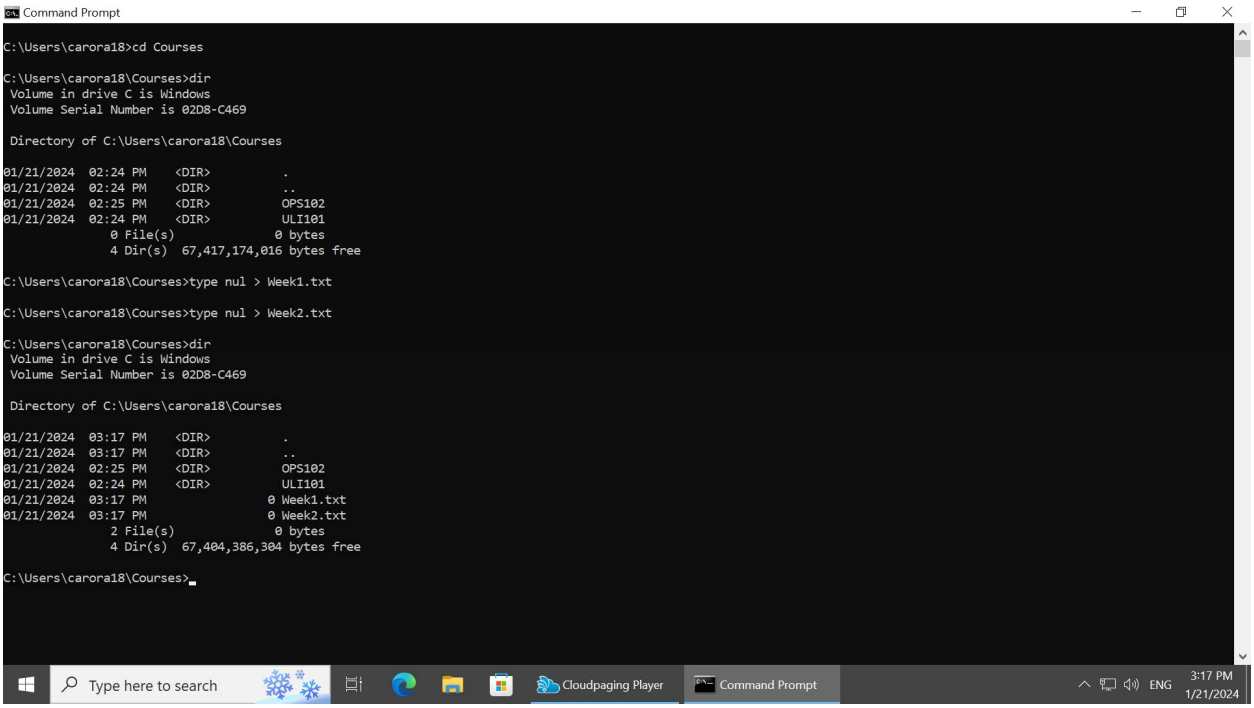


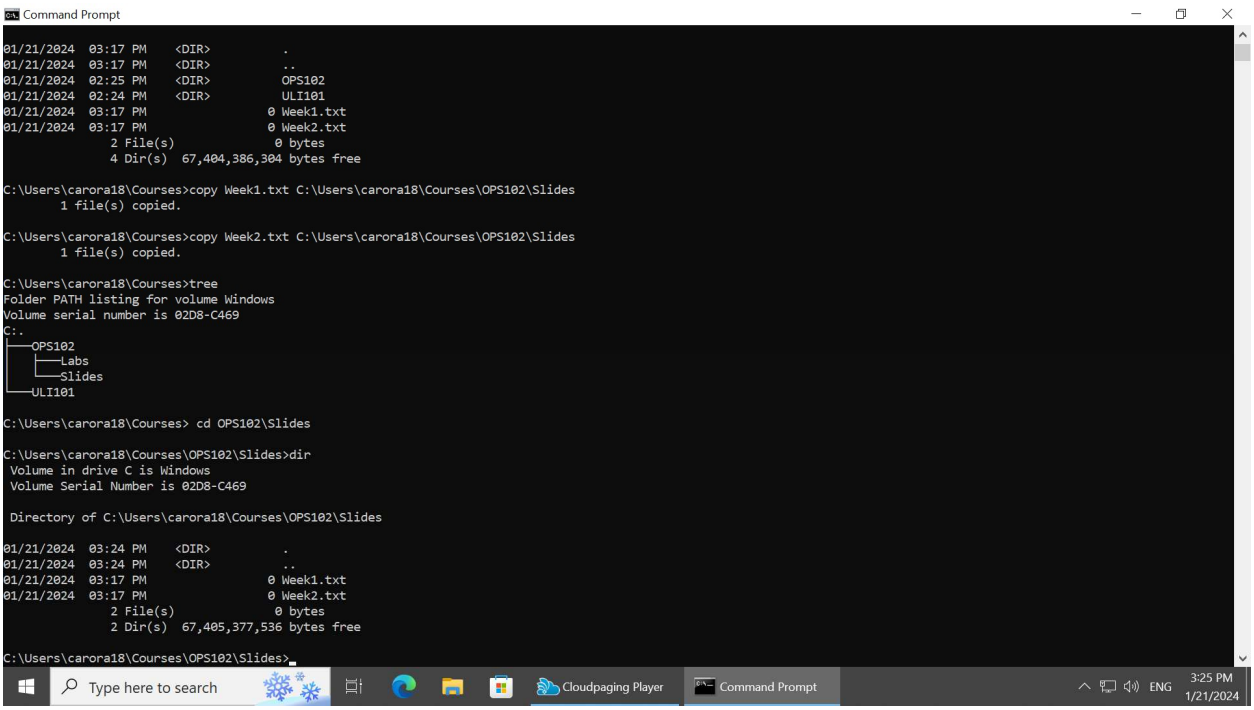
Task 3: Use “mv” command to move “Week1.txt” and “Week2.txt” files to “Labs” folder. (After executing this task you should have two copies of these files in “Slides” and “Labs” folders and no copy in “Courses” folder) show the screenshot of executed commands below.
<Screenshots>

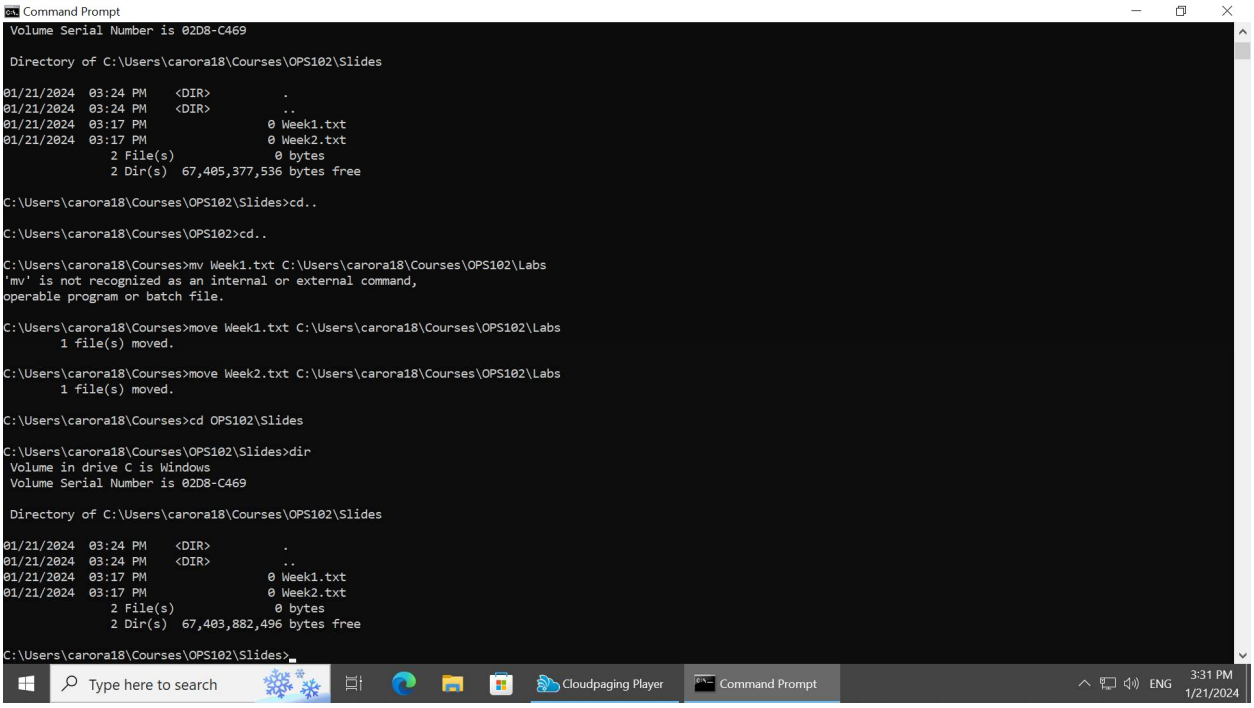


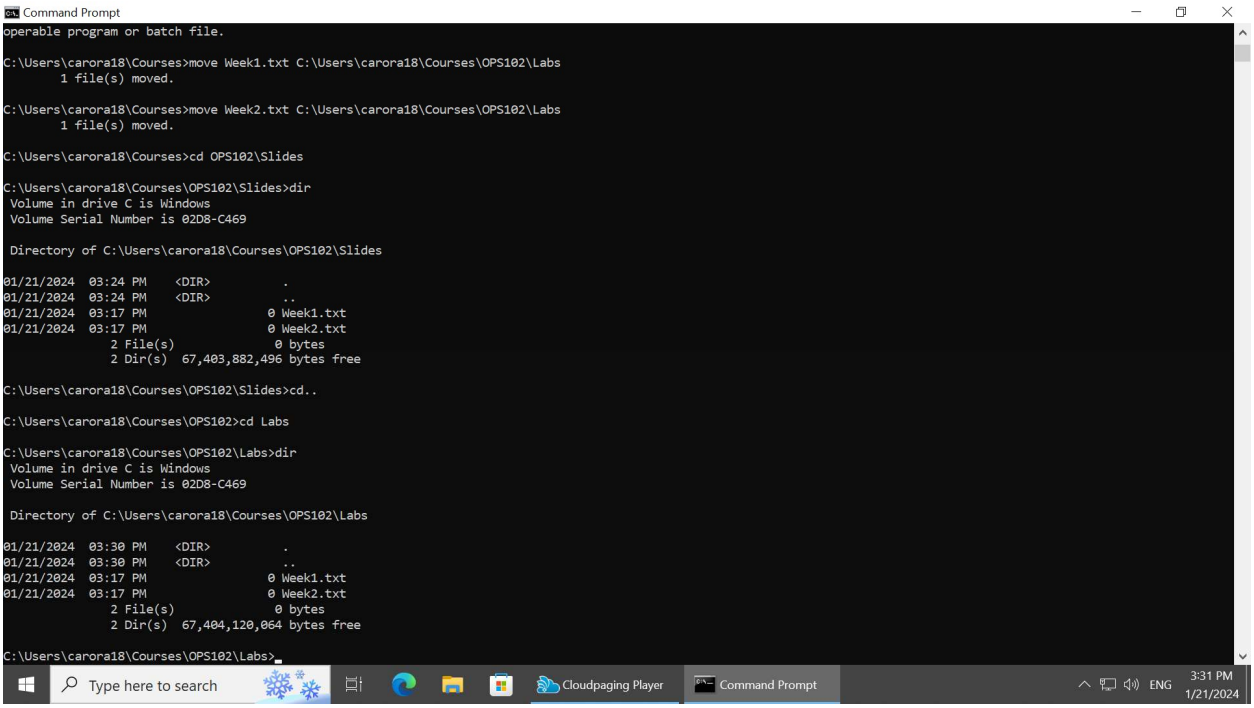
Task 4: Repeat above 3 tasks for Windows using command prompt and add all screenshots below (you can use any way of creating these files in the “Courses” folder, since “touch” command does not exist on Windows).

<Screenshots>

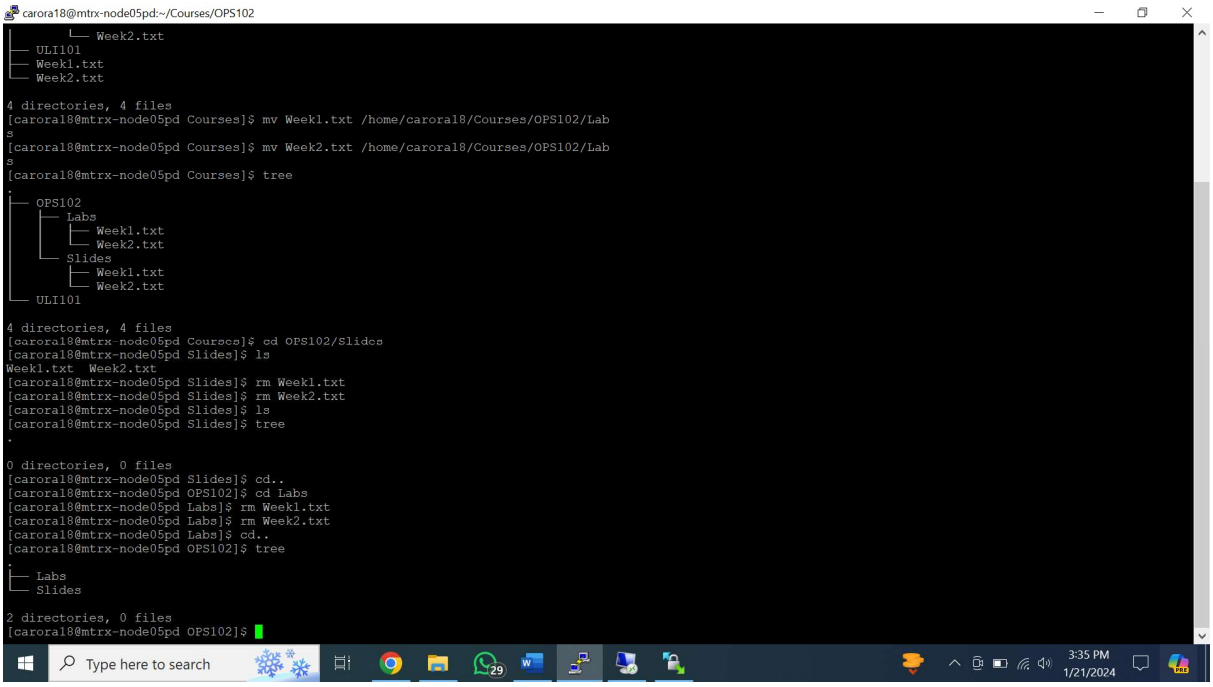




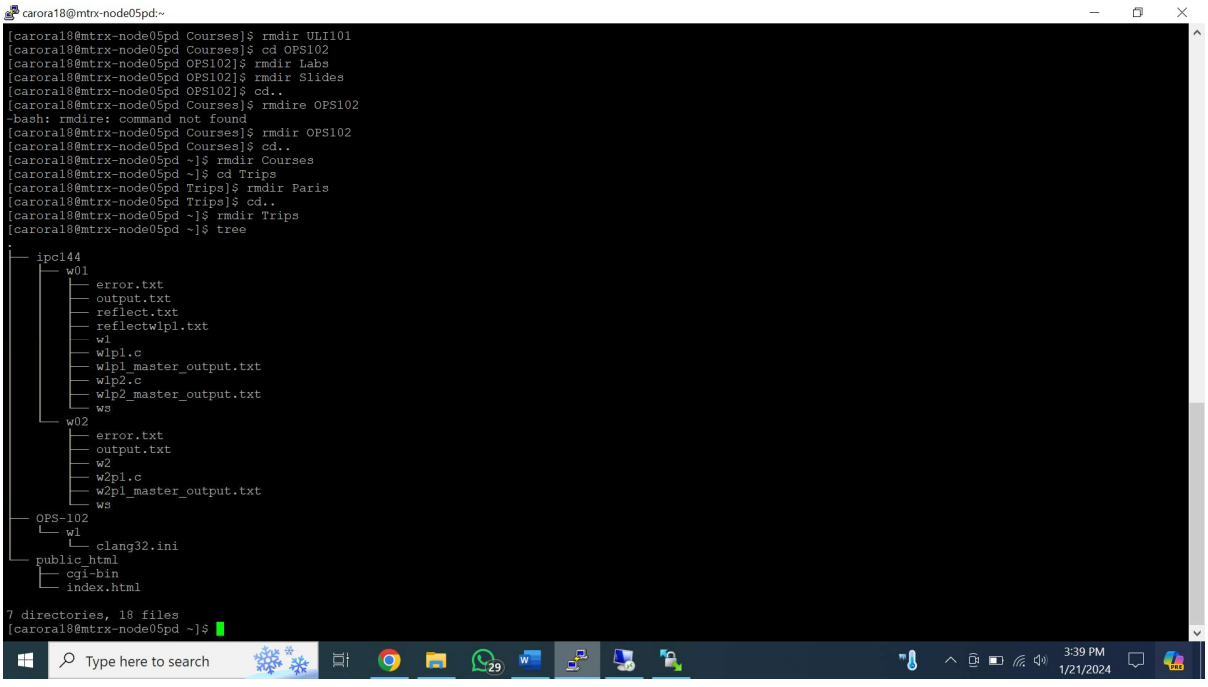

Command Prompt
Volume Serial Number is 02D8-C469
Directory of C:\Users\carora18\Courses\OPS102\Slides
01/21/2024 03:24 PM <DIR> .
01/21/2024 03:24 PM <DIR> ..
01/21/2024 03:17 PM 0 Week1.txt
01/21/2024 03:17 PM 0 Week2.txt
2 File(s) 0 bytes
2 Dir(s) 67,405,377,536 bytes free
C:\Users\carora18\Courses\OPS102\Slides>cd..
C:\Users\carora18\Courses\OPS102>cd..
C:\Users\carora18\Courses>mv Week1.txt C:\Users\carora18\Courses\OPS102\Labs
'mv' is not recognized as an internal or external command,
operable program or batch file.
C:\Users\carora18\Courses>move Week1.txt C:\Users\carora18\Courses\OPS102\Labs
1 file(s) moved.
C:\Users\carora18\Courses>move Week2.txt C:\Users\carora18\Courses\OPS102\Labs
1 file(s) moved.
C:\Users\carora18\Courses>cd OPS102\Slides
C:\Users\carora18\Courses\OPS102\Slides>dir
Volume in drive C is Windows
Volume Serial Number is 02D8-C469
Directory of C:\Users\carora18\Courses\OPS102\Slides
01/21/2024 03:24 PM <DIR> .
01/21/2024 03:24 PM <DIR> ..
01/21/2024 03:17 PM 0 Week1.txt
01/21/2024 03:17 PM 0 Week2.txt
2 File(s) 0 bytes
2 Dir(s) 67,403,882,496 bytes free
C:\Users\carora18\Courses\OPS102\Slides>
Type here to search
Cloudpaging Player
Command Prompt
ENG
3:31 PM
1/21/2024


Command Prompt
operable program or batch file.
C:\Users\carora18\Courses>move Week1.txt C:\Users\carora18\Courses\OPS102\Labs
1 file(s) moved.
C:\Users\carora18\Courses>move Week2.txt C:\Users\carora18\Courses\OPS102\Labs
1 file(s) moved.
C:\Users\carora18\Courses>cd OPS102\Slides
C:\Users\carora18\Courses\OPS102\Slides>dir
Volume in drive C is Windows
Volume Serial Number is 02D8-C469
Directory of C:\Users\carora18\Courses\OPS102\Slides
01/21/2024 03:24 PM <DIR> .
01/21/2024 03:24 PM <DIR> ..
01/21/2024 03:17 PM 0 Week1.txt
01/21/2024 03:17 PM 0 Week2.txt
2 File(s) 0 bytes
2 Dir(s) 67,403,882,496 bytes free
C:\Users\carora18\Courses\OPS102\Slides>cd..
C:\Users\carora18\Courses\OPS102>cd Labs
C:\Users\carora18\Courses\OPS102\Labs>dir
Volume in drive C is Windows
Volume Serial Number is 02D8-C469
Directory of C:\Users\carora18\Courses\OPS102\Labs
01/21/2024 03:30 PM <DIR> .
01/21/2024 03:30 PM <DIR> ..
01/21/2024 03:17 PM 0 Week1.txt
01/21/2024 03:17 PM 0 Week2.txt
2 File(s) 0 bytes
2 Dir(s) 67,404,120,064 bytes free
C:\Users\carora18\Courses\OPS102\Labs>
Type here to search
Cloudpaging Player
Command Prompt
ENG
3:31 PM
1/21/2024

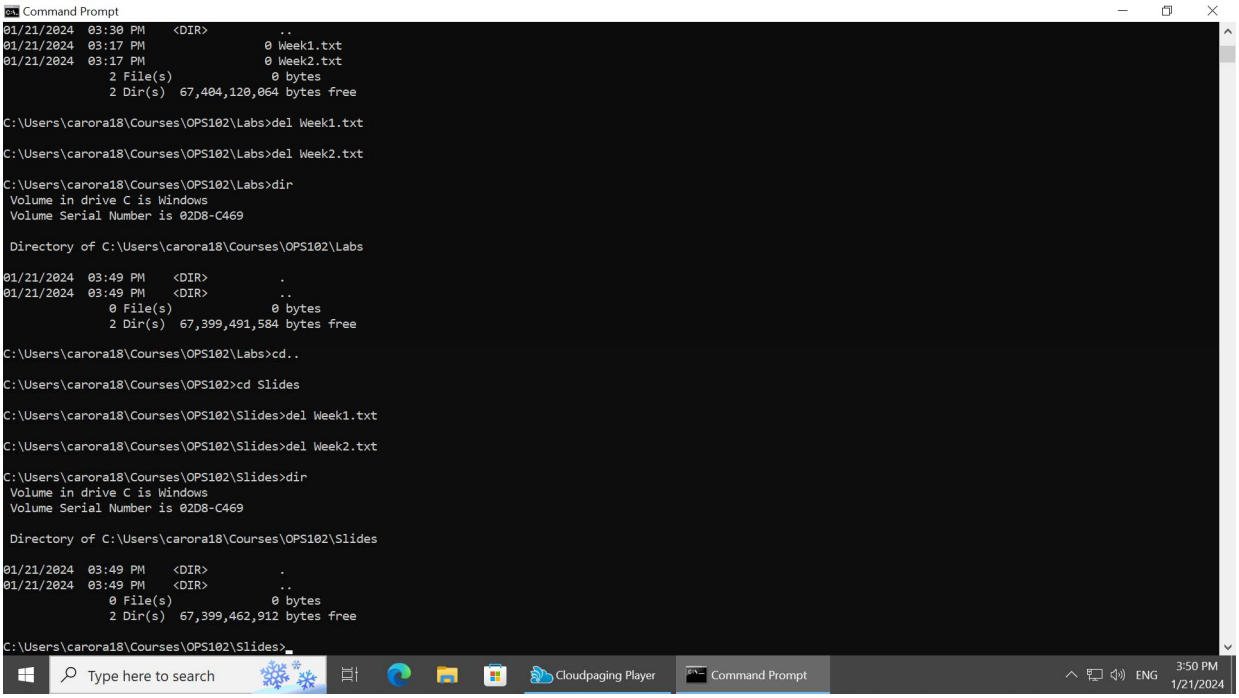
Task 5: Use “rm” command on Linux to delete the two files from both “Slides” and “Labs” folders and show the screenshots below.
<Screenshots>



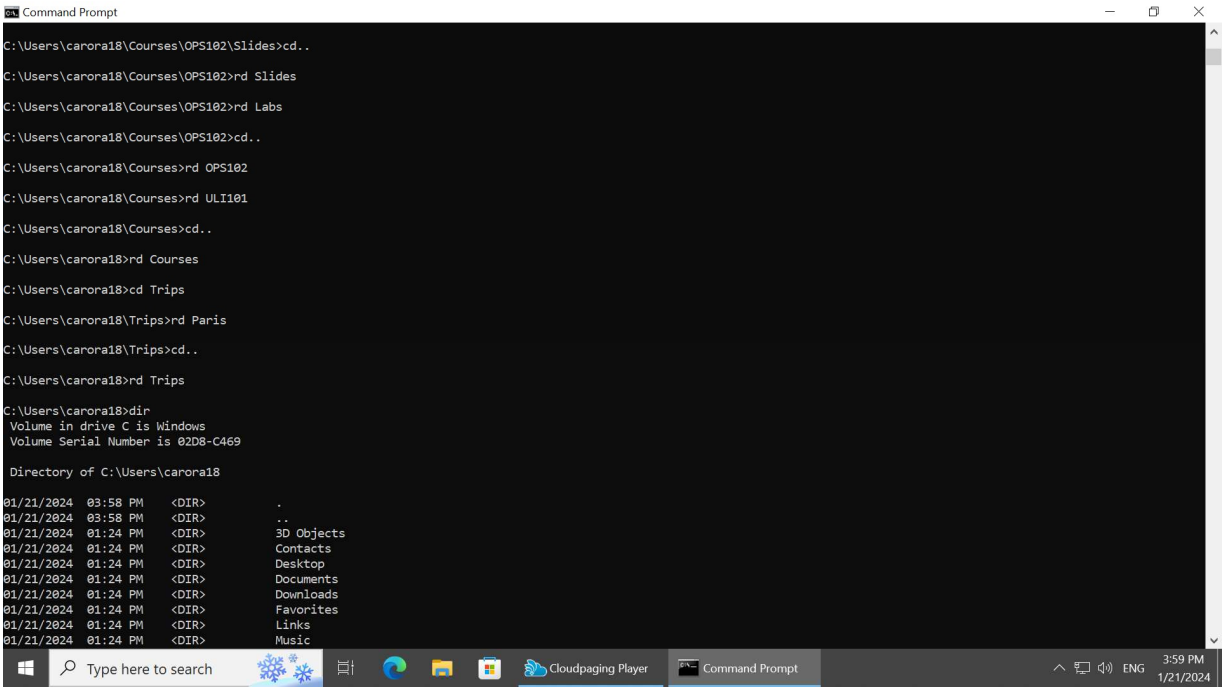
Task 6: Use “rmdir” command iteratively on Linux to delete the folder hierarchy created in Activity 3 and add screenshot below.
<Screenshots>

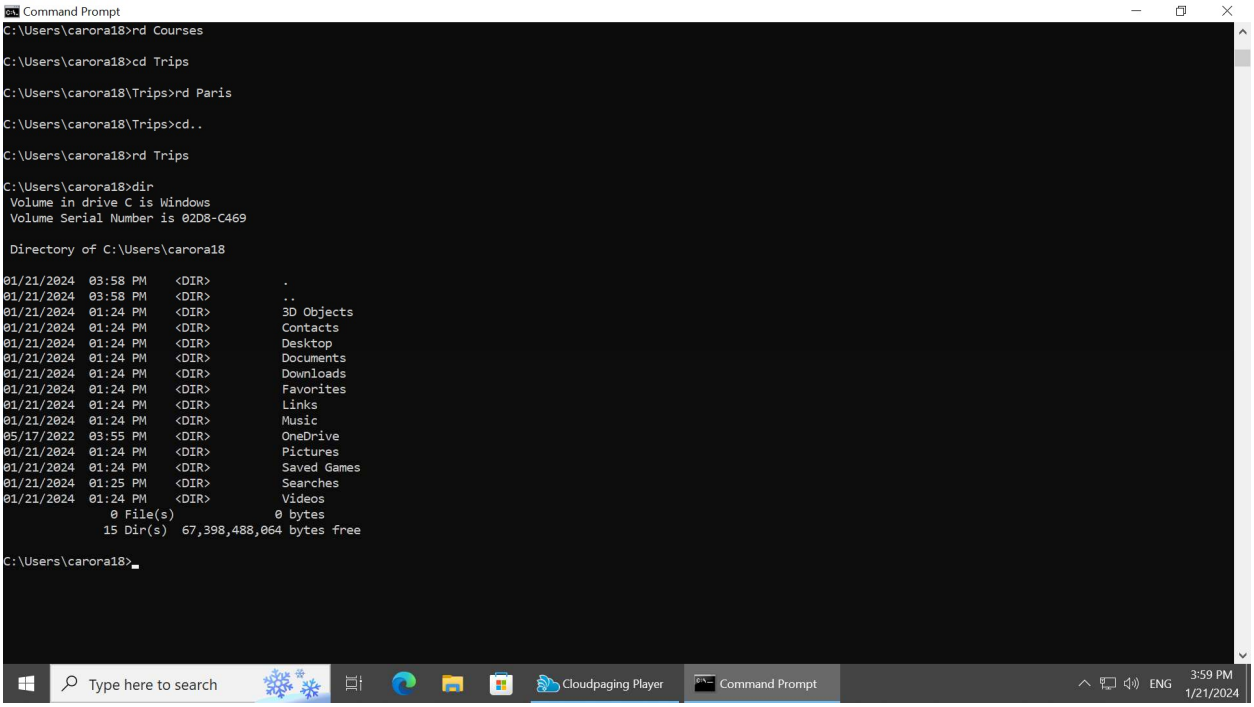


Task 7: Use “del” command on Windows to delete the two files from both “Slides” and “Labs” folders and show the screenshots below.
<Screenshots>



Task 8: Use “rd” command iteratively on Windows to delete the folder hierarchy created in Activity 3 and add screenshot below.
<Screenshots>




Command Prompt
C:\Users\carora18>rd Courses
C:\Users\carora18>cd Trips
C:\Users\carora18\Trips>rd Paris
C:\Users\carora18\Trips>cd..
C:\Users\carora18>rd Trips
C:\Users\carora18>dir
Volume in drive C is Windows
Volume Serial Number is 02D8-C469
Directory of C:\Users\carora18
01/21/2024 03:58 PM <DIR> .
01/21/2024 03:58 PM <DIR> ..
01/21/2024 01:24 PM <DIR> 3D Objects
01/21/2024 01:24 PM <DIR> Contacts
01/21/2024 01:24 PM <DIR> Desktop
01/21/2024 01:24 PM <DIR> Documents
01/21/2024 01:24 PM <DIR> Downloads
01/21/2024 01:24 PM <DIR> Favorites
01/21/2024 01:24 PM <DIR> Links
01/21/2024 01:24 PM <DIR> Music
05/17/2022 03:55 PM <DIR> OneDrive
01/21/2024 01:24 PM <DIR> Pictures
01/21/2024 01:24 PM <DIR> Saved Games
01/21/2024 01:25 PM <DIR> Searches
01/21/2024 01:24 PM <DIR> Videos
0 File(s) 0 bytes
15 Dir(s) 67,398,488,064 bytes free
C:\Users\carora18>
Type here to search
Cloudpaging Player
Command Prompt
ENG
3:59 PM
1/21/2024