CDAC MUMBAI

Concepts of Operating System

Assignment 1

Problem 1: Read the instructions carefully and answer accordingly. If there is any need to insert some data then do that as well.

- a) Navigate and List:
- a. Start by navigating to your home directory and list its contents. Then, move into a directory named "LinuxAssignment" if it exists; otherwise, create it.

b) File Management: a. Inside the "LinuxAssignment" directory, create a new file named "file1.txt". Display its contents.

```
hp@DESKTOP-ROBSF31 ~/linuxassignment
$ touch file1.txt

hp@DESKTOP-ROBSF31 ~/linuxassignment
$ cood - bash: Good: command not found

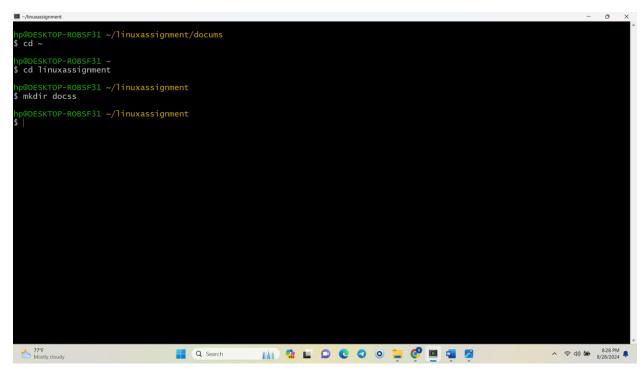
hp@DESKTOP-ROBSF31 ~/linuxassignment
$ echo "This is a sample text file for Linux
Assignment." > file1.txt

hp@DESKTOP-ROBSF31 ~/linuxassignment
$ cat file1.txt
This is a sample text file for LinuxAssignment.

hp@DESKTOP-ROBSF31 ~/linuxassignment
$

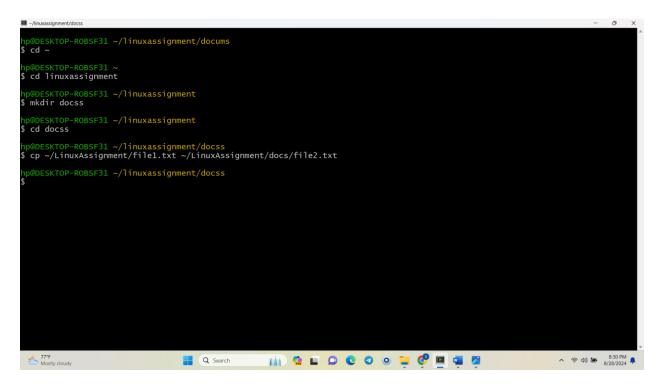
$ A ** 01 *** * 744 PM **
```

- c) Directory Management:
- a. Create a new directory named "docs" inside the "LinuxAssignment" directory.



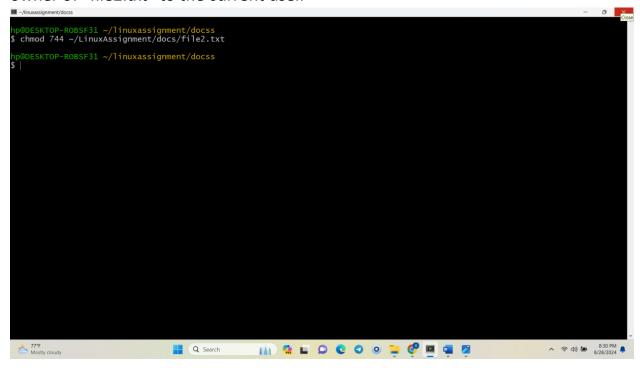
d) Copy and Move Files:

a. Copy the "file1.txt" file into the "docs" directory and rename it to "file2.txt".



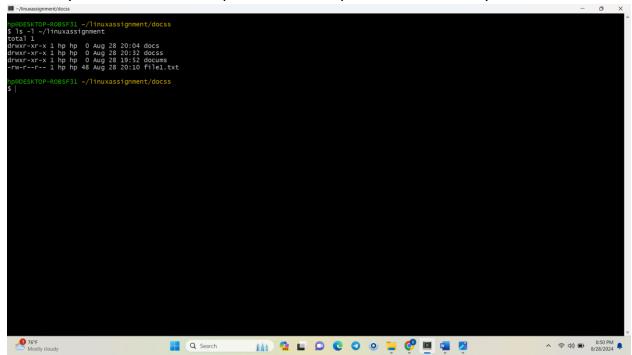
- e) Permissions and Ownership:
- a. Change the permissions of "file2.txt" to allow read, write, and execute permissions for the owner and only read permissions for others. Then, change the

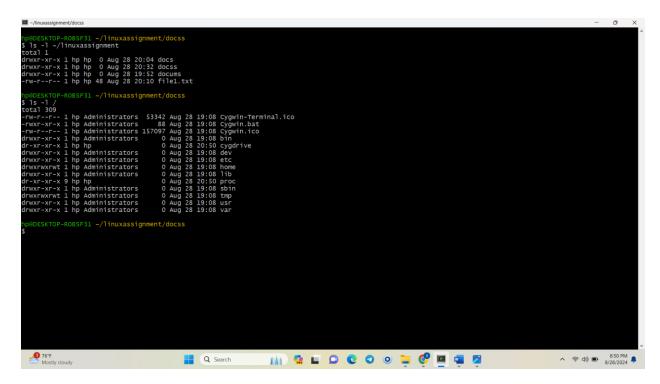
owner of "file2.txt" to the current user.



f) Final Checklist:

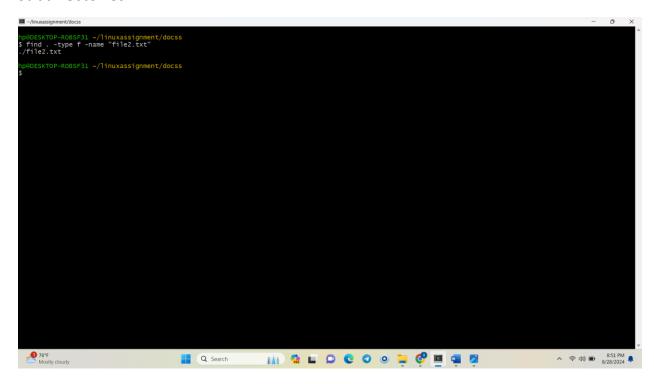
a. Finally, list the contents of the "LinuxAssignment" directory and the root directory to ensure that all operations were performed correctly.



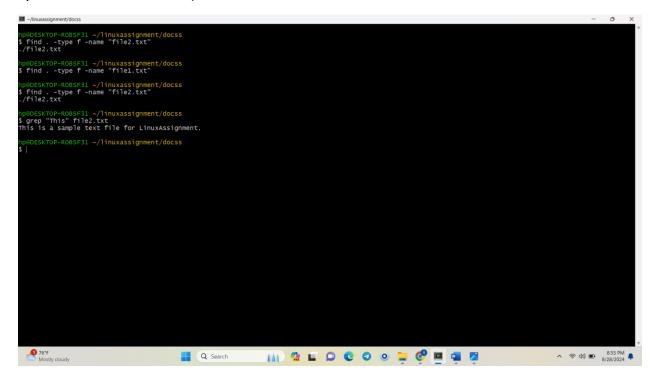


g) File Searching:

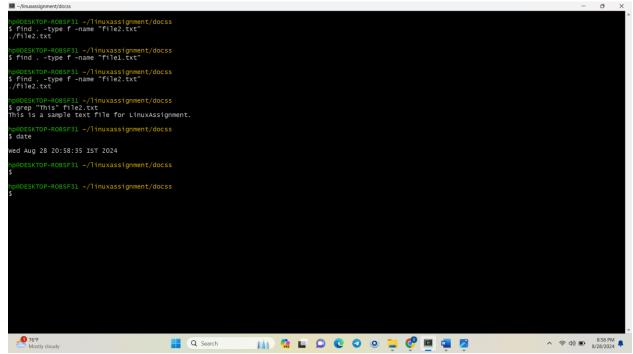
a. Search for all files with the extension ".txt" in the current directory and its subdirectories.



b. Display lines containing a specific word in a file (provide a file name and the specific word to search).



- h) System Information:
- a. Display the current system date and time.

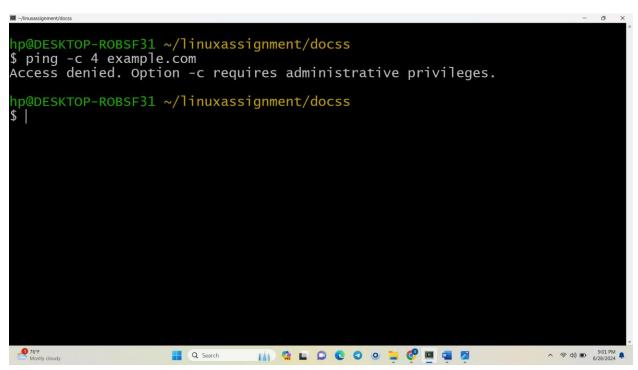


i) Networking:

a. Display the IP address of the system.

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b. Ping a remote server to check connectivity (provide a remote server address to ping).



j) File Compression:

a. Compress the "docs" directory into a zip file.

```
hp@DESKTOP-ROBSF31 ~/linuxassignment/docss
$ ping -c 4 example.com
Access denied. Option -c requires administrative privileges.

hp@DESKTOP-ROBSF31 ~/linuxassignment/docss
$ zip -r docss.zip ~/linuxassignment/docss
-bash: zip: command not found

hp@DESKTOP-ROBSF31 ~/linuxassignment/docss
$ |
```

b. Extract the contents of the zip file into a new directory.

k) File Editing:

