



ALBUKHARY INTERNATIONAL UNIVERSITY

SCHOOL OF COMPUTING & INFORMATICS

Course Title	:	OPERATING SYSTEMS
Course Code	:	CCC 2123

LAB EXERCISE (WEEK 7)

Instructions:

Using the Command Line Interface (CLI) for Linux that we have learned and used so far, please execute the following tasks:

Task 1: File Creation and Text Editing

- In the home directory, create a new directory named "File_Lab."
- Move into the "File_Lab" directory.
- Inside this directory, create three text files: "text1.txt," "text2.txt," and "text3.txt."
- Open "text1.txt" using a text editor like nano or vim and add some content.
- Save and exit the text editor.

Answers:

```
(haryani@kali)-[~]
$ mkdir ~/File_Lab

(haryani@kali)-[~]
$ cd ~/File_Lab

(haryani@kali)-[~/File_Lab]
$ touch text1.txt text2.txt text3.txt

(haryani@kali)-[~/File_Lab]
$ nano text1.txt
```

Create a new directory named "File_Lab" in the home directory

`mkdir ~/File_Lab`

Move into the "File_Lab" directory

`cd ~/File_Lab`

Create three text files: "text1.txt," "text2.txt," and "text3.txt."

`touch text1.txt text2.txt text3.txt`

Open "text1.txt" using a text editor like nano
You can choose either nano or vim, we usually use nano in our Lab Session
`nano text1.txt`

#Now, you can add your desired content to "text1.txt." After adding the content, save and exit the text editor.

*In nano, you can save by pressing Ctrl + O, then press Enter, and exit by pressing Ctrl + X.

Task 2: File Copying and Moving

- Copy "text1.txt" to a new file named "text1_copy.txt" within the same directory.
- Move "text2.txt" to a subdirectory named "Subdir1."
- Verify that the move was successful and check the contents of "Subdir1."

Answers:

```
(haryani@kali)-[~/File_Lab]
$ cp text1.txt text1_copy.txt

(haryani@kali)-[~/File_Lab]
$ ls
text1.text  text1.txt  text1_copy.txt  text2.txt  text3.txt

(haryani@kali)-[~/File_Lab]
$ mkdir Subdir1

(haryani@kali)-[~/File_Lab]
$ ls
Subdir1  text1.text  text1.txt  text1_copy.txt  text2.txt  text3.txt

(haryani@kali)-[~/File_Lab]
$ mv text2.txt Subdir1/

(haryani@kali)-[~/File_Lab]
$ ls
Subdir1  text1.text  text1.txt  text1_copy.txt  text3.txt

(haryani@kali)-[~/File_Lab]
$ ls Subdir1
text2.txt
```

Copy "text1.txt" to a new file named "text1_copy.txt" within the same directory
`cp text1.txt text1_copy.txt`

Move "text2.txt" to a subdirectory named "Subdir1"
`mkdir Subdir1`

Create the subdirectory if it doesn't exist
`mv text2.txt Subdir1/`

Verify that the move was successful
`ls`

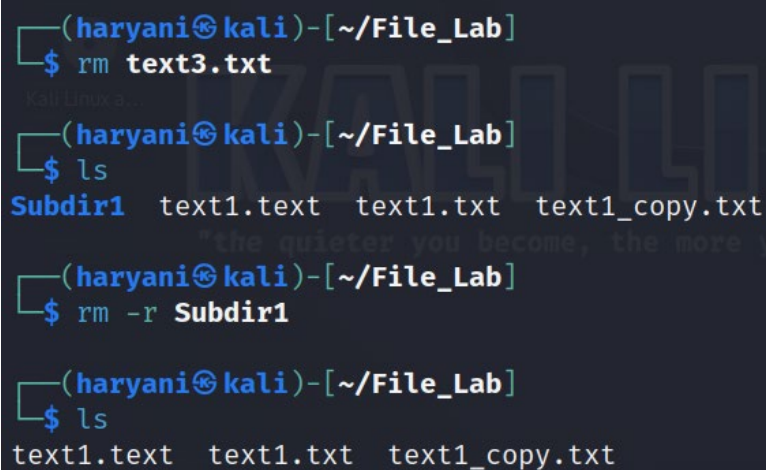
List the contents of the current directory

ls Subdir1

Task 3: File Deletion and Cleanup

- Delete "text3.txt" using the appropriate command.
- Remove the entire "Subdir1" and its contents.
- Confirm that the files and directories have been deleted.

Answers:



```
(haryani@kali)-[~/File_Lab]
$ rm text3.txt

(haryani@kali)-[~/File_Lab]
$ ls
Subdir1  text1.txt  text1.txt  text1_copy.txt

(haryani@kali)-[~/File_Lab]
$ rm -r Subdir1

(haryani@kali)-[~/File_Lab]
$ ls
text1.txt  text1.txt  text1_copy.txt
```

Delete "text3.txt" using the appropriate command

rm text3.txt

Remove the entire "Subdir1" and its contents

rm -r Subdir1

Confirm that the files and directories have been deleted

List the contents of the current directory

ls

#These commands will delete "text3.txt" using the rm command and remove the entire "Subdir1" and its contents using rm -r (the -r flag stands for recursive, allowing removal of directories and their contents).