

Linux Basic Commands Assignment

Assignment Part-3

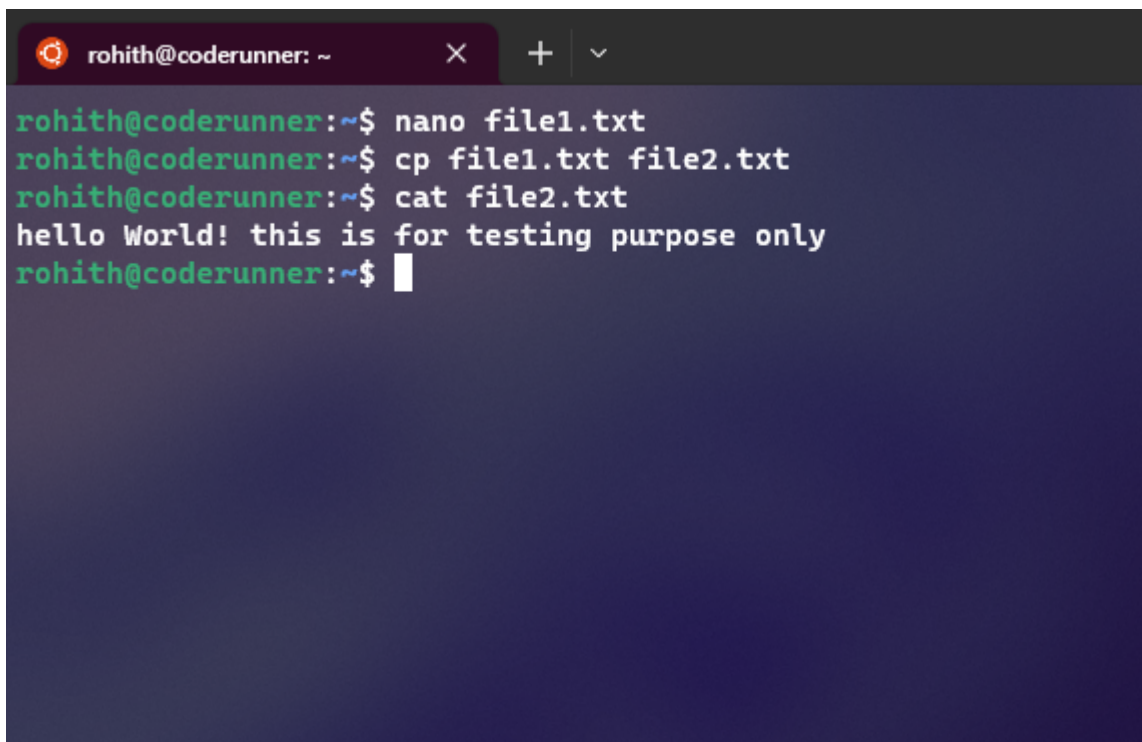
Playing with files

1. Create a file like **nano file1.txt**

- Edit some data and then save the file

2. Now we will copy data from file1 to new file2

- **cp file1.txt file2.txt**
- Then see the output of file2.txt, **cat file2.txt**
- Give screenshot

A screenshot of a terminal window with a dark blue background. The window title bar shows 'rohith@coderunner: ~' and standard window controls. The terminal displays the following commands and their outputs:

```
rohith@coderunner:~$ nano file1.txt
rohith@coderunner:~$ cp file1.txt file2.txt
rohith@coderunner:~$ cat file2.txt
hello World! this is for testing purpose only
rohith@coderunner:~$
```

3. Now we will move the file2.txt to new folder **/home**

- **mv file2.txt /home**
- Then go to **home** directory and check **ls**, file exists or not?
- Given screenshot

```
rohith@coderunner: /home × + v
rohith@coderunner:~$ nano file1.txt
rohith@coderunner:~$ cp file1.txt file2.txt
rohith@coderunner:~$ cat file2.txt
hello World! this is for testing purpose only
rohith@coderunner:~$ mv file2.txt /home
mv: cannot move 'file2.txt' to '/home/file2.txt': Permission denied
rohith@coderunner:~$ sudo mv file2.txt /home
[sudo] password for rohith:
rohith@coderunner:~$ cd /home
rohith@coderunner:/home$ ls
file2.txt  rohith
rohith@coderunner:/home$
```

4. Then we create a new **file3.txt** and **file4.txt** in **home** directory and add content in it.

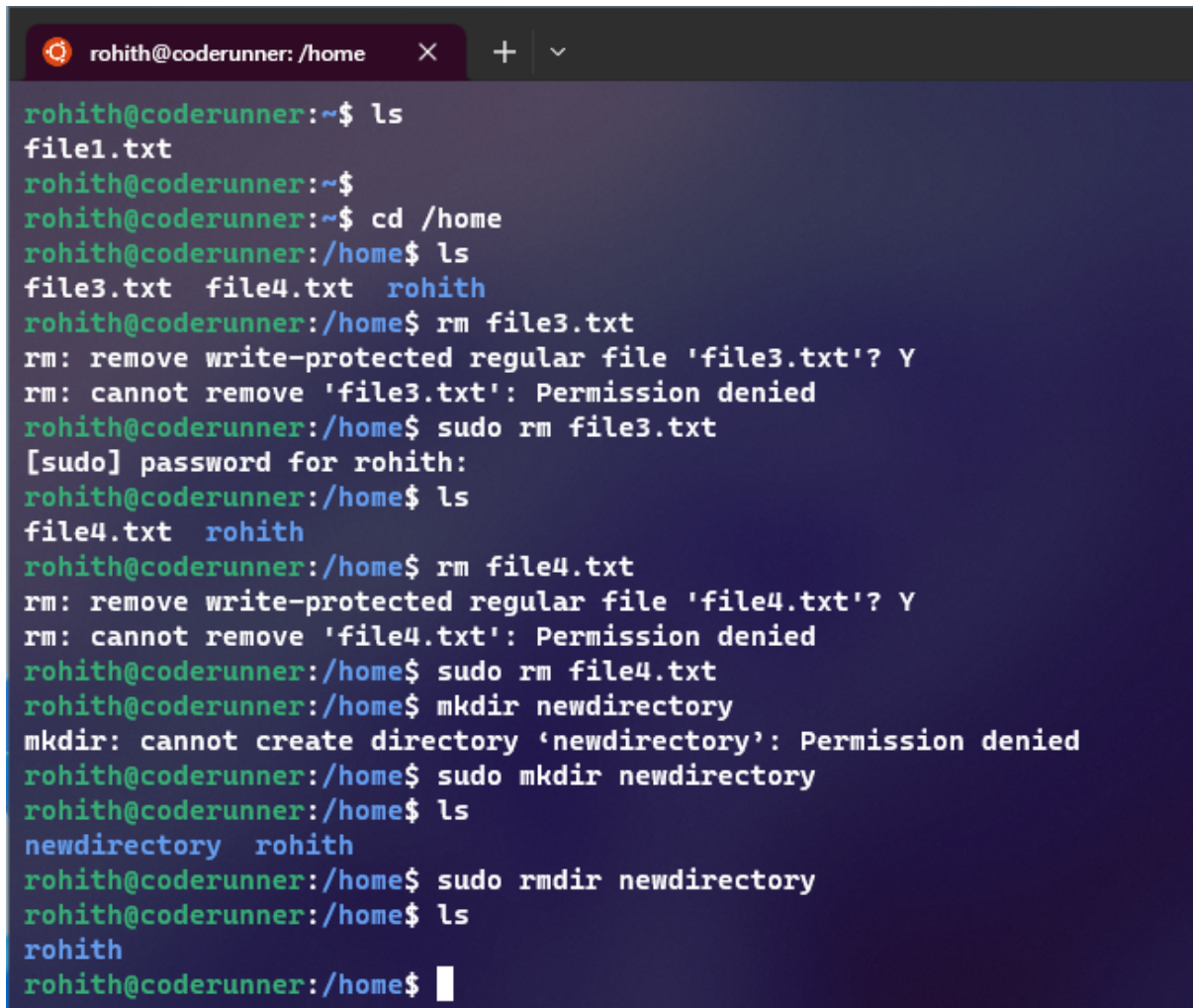
- Now do echo **"Hello I am newline"** > **file3.txt** and provide the output of file3.txt
- Now do echo **"Hello I am newline"** >> **file4.txt** and provide the output of file4.txt
- Tell the difference between both step you follow and the reason behind it

```
rohith@coderunner: /home × + v
rohith@coderunner:/home$ ls
file2.txt  file3.txt  file4.txt  rohith
rohith@coderunner:/home$ sudo bash -c 'echo "hello i am newline">file3.txt'
rohith@coderunner:/home$ sudo bash -c 'echo "hello i am newline">>file4.txt'
rohith@coderunner:/home$ cat file3.txt
hello i am newline
rohith@coderunner:/home$ cat file4.txt
hello, this is file 4
hello i am newline
rohith@coderunner:/home$
```

Ans : '>' is used for output redirection, overwriting the file if it exists, while '>>' is used for appending the output to the end of the file

5. For remove a file or directory you can use the below two commands

- To delete a file - `rm <any_filename>`
- To delete a directory - `rmdir <any_directoryname>`

A terminal window titled 'rohith@coderunner: /home' with standard window controls. The terminal shows a series of commands and their outputs. The user lists files, then attempts to remove 'file3.txt' and 'file4.txt' using 'rm'. Both attempts fail with 'Permission denied'. The user then uses 'sudo' to remove the same files, which succeeds. Next, the user attempts to create a directory 'newdirectory' with 'mkdir', which also fails with 'Permission denied'. Finally, the user uses 'sudo mkdir newdirectory', which succeeds. The terminal ends with the user's name 'rohith' and a prompt for the next command.

```
rohith@coderunner:~$ ls
file1.txt
rohith@coderunner:~$
rohith@coderunner:~$ cd /home
rohith@coderunner:/home$ ls
file3.txt  file4.txt  rohith
rohith@coderunner:/home$ rm file3.txt
rm: remove write-protected regular file 'file3.txt'? Y
rm: cannot remove 'file3.txt': Permission denied
rohith@coderunner:/home$ sudo rm file3.txt
[sudo] password for rohith:
rohith@coderunner:/home$ ls
file4.txt  rohith
rohith@coderunner:/home$ rm file4.txt
rm: remove write-protected regular file 'file4.txt'? Y
rm: cannot remove 'file4.txt': Permission denied
rohith@coderunner:/home$ sudo rm file4.txt
rohith@coderunner:/home$ mkdir newdirectory
mkdir: cannot create directory 'newdirectory': Permission denied
rohith@coderunner:/home$ sudo mkdir newdirectory
rohith@coderunner:/home$ ls
newdirectory  rohith
rohith@coderunner:/home$ sudo rmdir newdirectory
rohith@coderunner:/home$ ls
rohith
rohith@coderunner:/home$
```