4ITRC2 Operating System Lab

Lab Assignment 2

**Aim :-** To Study and understand Ubuntu Commands

**To Perform :-** Execute different Commands

**To Submit :-**

**Part 1 :-** Outputs of the following commands

1. pwd :- Print working Directory
2. cd :- Change Directory
3. ls :- List of information about files
4. mkdir :- Create new folder(s)
5. rm :- Remove files
6. touch :- Change File time stamps
7. hostname :- Print or set system name
8. cat :- Concatenate and print (display) the content offiles
9. chmod :- change access permissions
10. echo :- Display the message on screen
11. grep :- Search file(s) for lines that match a given pattern
12. fgrep :- Search file(s) for lines that match a fixed string
13. mv :- Move or rename files or directories
14. cp :- Copy one or more files to another location
15. more :- Display output one screen at a time
16. less :- shows [a file's contents](https://phoenixnap.com/glossary/what-is-a-file) one screen at a time
17. wc :- Print byte, word, and line counts
18. awk :- Find and Replace text, database sort/validate/index
19. sed :- Stream Editor
20. tail :- Output the last part of file

**Part 2 :-** Answer the following Questions (you need to supply commands)

1. How to navigate to a Specific Directory?

Ans:- cd path/to/directory

1. How to see detailed information about files and directories using ls?

Ans :- ls -l

1. How to create multiple directories in Linux using `mkdir` command?

Ans :- mkdir dir1 dir2 dir3

1. How to remove multiple files at once with rm?

Ans :- rm file1 file2 file3

1. Can rm be used to delete directories?

Ans :- rm -r directory\_name

1. How Do You Copy Files and Directories in Linux?

Ans :- cp source\_file destination\_file , cp -r source\_directory destination\_directory

1. How to Rename a file in Linux Using mv Command

Ans :- mv old\_filename new\_filename

1. How to Move Multiple files in Linux Using mv Command

Ans :- mv file1 file2 file3 destination\_directory

1. How to Create Multiple Empty Files by Using Touch Command in Linux

Ans :- touch file1 file2 file3

1. How to View the Content of Multiple Files in Linux

Ans :- cat file1 file2

1. How to Create a file and add content in Linux Using `cat` Command

Ans :- cat > filename

1. How to Append the Contents of One File to the End of Another File using cat command

Ans :- cat source\_file >> destination\_file

1. How to use cat command if the file has a lot of content and can’t fit in the terminal.

Ans :- cat filename | less

1. How to Merge Contents of Multiple Files Using `cat` Command

Ans :- cat file1 file2 > merged\_file

1. How to use cat Command to Append to an Existing File

Ans :- cat >> existing\_file

1. What is “chmod 777 “, “chmod 755” and “chmod +x “or “chmod a+x”?

Ans :-

* chmod 777: Grants read, write, and execute permissions to everyone.
* chmod 755: Grants full permissions to the owner, and read and execute permissions to others.
* chmod +x or chmod a+x: Adds execute permissions to everyone.

1. How to find the number of lines that matches the given string/pattern

Ans :- grep -c "pattern" filename

1. How to display the files that contains the given string/pattern.

Ans :- grep "pattern" \*

1. How to show the line number of file with the line matched.

Ans:- grep -n "pattern" filename

1. How to match the lines that start with a string using grep

Ans :- grep "^string" filename

1. Can the ‘sort’ command be used to sort files in descending order by default?

Ans :- sort -r filename

1. How can I sort a file based on a specific column using the ‘sort’ command?

Ans :- sort -k column\_number filename