4ITRC2 Operating System Lab Lab Assignment 1

<u>Aim</u>:- 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. Is:- 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 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

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

Ans :- Is -I

3. How to create multiple directories in Linux using 'mkdir' command?

Ans: - mkdir dir1 dir2 dir3

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

Ans:- rm file1 file2 file3

5.Can rm be used to delete directories?

Ans :- rm -r directory_name

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

Ans :- cp source_file destination_file , cp -r source_directory destination directory

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

Ans :- mv old_filename new_filename

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

Ans :- mv file1 file2 file3 destination_directory

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

Ans:- touch file1 file2 file3

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

Ans:- cat file1 file2

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

Ans :- cat > filename

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

Ans :- cat source_file >> destination_file

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

Ans :- cat filename | less

14. How to Merge Contents of Multiple Files Using 'cat' Command

Ans :- cat file1 file2 > merged_file

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

Ans :- cat >> existing file

16.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.

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

Ans :- grep -c "pattern" filename

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

Ans :- grep "pattern" *

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

Ans:- grep -n "pattern" filename

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

Ans :- grep "^string" filename

21.Can the 'sort' command be used to sort files in descending order by default?

Ans :- sort -r filename

22. How can I sort a file based on a specific column using the 'sort' command?

Ans :- sort -k column_number filename

