4ITRC2 Operating System Lab

Lab Assignment 2

Aim: To study and understand Ubuntu Commands

To perform: Execute different Commands

To Submit:

Part1 :- 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 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 :- ls -l

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