## OPERATING SYSTEM (4ITRC2) LAB ASSIGNMENT 2

Aim: To study and understand Ubuntu Commands.

**To perform:** Execute different Commands.

## **To Submit:**

Part 1: Outputs of the following commands.

pwd: Print working Directory.cd: Change Directory.

• is: List of information about files.

• **mkdir:** Create new folder.

• rm: Remove files.

touch: Change file time stamps.
hostname: Print or set system name.

• cat: Concatenate and print (Display) the content of files.

chmod: Change access permissions.echo: Display the message on screen.

grep: Search files for lines that match a given pattern.
fgrep: Search files for lines that match a fixed string.

• mv: Move or Rename files or Directories.

• **cp:** Copy one or more files to another loction.

• more: Display output one screen at a time.

• **less:** Shows a file's contents ane screen at a time.

• wc: Print byte, word, and line counts.

• awk: Find and replace text, database sort/ validate/ index.

• **sed:** Stream Editor.

• tail: Output the last part of file.

## Part 2: Answer the following questions (you need to supply commands).

- 1. How to navigate to specific Directory? Ans: cd path/to/directory.
- 2. How to see detailed information about files and directories using Is? 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:
  - i) chmod 777: Grants read write, and execute permissions to everyone.
  - ii ) chmod 755: Grants full permissions to the owner ,and read and execute permissions to other.
  - iii) 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" file name.
- 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.

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