

Roll No:241901097

Name: SANGATHAMIZHAN.S.P

EXPT: 1 BASIC COMMANDS IN LINUX AND WINDOWS

AIM:

To understand and execute basic Linux and Windows Operating System commands.

Linux Commands:

1. ls

Synopsis: ls [OPTION]... [FILE]

Description: Lists files and directories in the current directory.

2. ls -l

Synopsis: ls -l

Description: Displays detailed information (permissions, size, owner, time).

3. ls -a

Synopsis: ls -a

Description: Shows all files, including hidden ones.

4. pwd

Synopsis: pwd

Description: Prints the current working directory.

5. cd

Synopsis: cd [DIRECTORY]

Description: Changes the current working directory.

6. mkdir

Synopsis: mkdir DIRECTORY

Description: Creates one or more directories.

7. rmdir

Synopsis: rmdir DIRECTORY

Description: Removes an empty directory.

8. touch

Synopsis: touch FILE

Description: Creates a new empty file or updates timestamp.

9. cp

Synopsis: cp SOURCE DEST

Description: Copies files or directories.

10. mv

Synopsis: mv SOURCE DEST

Description: Moves or renames files or directories.

11. rm

Synopsis: rm FILE

Description: Deletes a file.

12. rm -r

Synopsis: rm -r DIRECTORY

Description: Removes a directory and its contents.

13. cat

Synopsis: cat FILE

Description: Displays file contents.

14. nano

Synopsis: nano FILE

Description: Opens a simple text editor inside the terminal.

15. echo

Synopsis: echo TEXT

Description: Prints text to screen.

SYSTEM INFORMATION

16. uname -a

Synopsis: uname -a

Description: Shows complete system information.

17. df -h

Synopsis: df -h

Description: Displays disk space usage in human-readable format.

18. free -h

Synopsis: free -h

Description: Shows RAM and swap memory usage.

19. top

Synopsis: top

Description: Displays running processes and system usage.

20. htop

Synopsis: htop

Description: Improved version of top (if installed).

PACKAGE MANAGEMENT

21. apt update

Synopsis: sudo apt update

Description: Updates package index (Ubuntu/Debian).

22. apt install

Synopsis: sudo apt install PACKAGE

Description: Installs a software package.

23. apt remove

Synopsis: sudo apt remove PACKAGE

Description: Uninstalls a package.

NETWORK COMMANDS

24. ifconfig

Synopsis: ifconfig

Description: Shows network interface configuration.

25. ip a

Synopsis: ip a

Description: Displays IP addresses and network interfaces.

26. ping

Synopsis: ping HOST

Description: Tests network connectivity.

27. curl

Synopsis: curl URL

Description: Transfers data from or to a server.

28. wget

Synopsis: wget URL

Description: Downloads files from the internet.

29. chmod

Synopsis: chmod MODE FILE

Description: Changes file permissions.

30. chown

Synopsis: chown USER:GROUP FILE

Description: Changes file owner and group.

Result:

The basic Linux and Windows commands were successfully executed. The functionalities of each

command were understood, including directory handling, file operations, and system management tasks.