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### Exp.no: 1 - BASIC COMMANDS IN LINUX AND WINDOWS

**AIM:** To understand and execute basic Linux and Windows Operating System commands.

**Linux Commands:**

**1. pwd**  
**Synopsis:** pwd  
**Description:** Displays the current working directory (the folder you are currently in).

**2. ls**  
**Synopsis:** ls [options]  
**Description:** Lists all files and directories in the current location.

**3. cd**  
**Synopsis:** cd [path]  
**Description:** Changes the current working directory. Use cd .. to move up one level.

**4. mkdir**  
**Synopsis:** mkdir [directory\_name]  
**Description:** Creates a new directory in the current location.

**5. rmdir**  
**Synopsis:** rmdir [directory\_name]  
**Description:** Removes an empty directory.

**6. cp**  
**Synopsis:** cp [source] [destination]  
**Description:** Copies files or directories from one place to another.

**7. mv**  
**Synopsis:** mv [source] [destination]  
**Description:** Moves or renames files and directories.

**8. rm**  
**Synopsis:** rm [file\_name]  
**Description:** Deletes files from the system. Use rm -r to delete folders.

**9. touch**  
**Synopsis:** touch [file\_name]  
**Description:** Creates a new empty file or updates the timestamp of an existing file.

**10. cat**  
**Synopsis:** cat [file\_name]  
**Description:** Displays the contents of a file.

**11. nano / vi**  
**Synopsis:** nano [file\_name] or vi [file\_name]  
**Description:** Opens the specified file in a text editor for editing.

**12. chmod**  
**Synopsis:** chmod [permissions] [file]  
**Description:** Changes file permissions (read, write, execute) for users.

**13. chown**  
**Synopsis:** chown [user]:[group] [file]  
**Description:** Changes the owner and group of a file or directory.

**14. df**  
**Synopsis:** df -h  
**Description:** Displays available and used disk space on all mounted file systems.

**15. du**  
**Synopsis:** du -h [directory]  
**Description:** Shows the disk usage of files and directories.

**16. ps**  
**Synopsis:** ps or ps aux  
**Description:** Displays currently running processes.

**17. kill**  
**Synopsis:** kill [process\_id]  
**Description:** Terminates a process using its process ID (PID).

**18. grep**  
**Synopsis:** grep [pattern] [file]  
**Description:** Searches for a specific pattern or word within a file.

**19. man**  
**Synopsis:** man [command]  
**Description:** Displays the manual or help documentation for a command.

**20. sudo**  
**Synopsis:** sudo [command]  
**Description:** Executes a command with superuser (administrator) privileges.

**Windows commands:**

**1. dir**  
**Synopsis:** dir  
**Description:** Lists all files and folders in the current directory.

**2. cd**  
**Synopsis:** cd [path]  
**Description:** Changes the current working directory. Use cd.. to move up one level.

**3. mkdir**  
**Synopsis:** mkdir [folder\_name]  
**Description:** Creates a new folder in the current directory.

**4. rmdir**  
**Synopsis:** rmdir [folder\_name]  
**Description:** Deletes an empty folder.

**5. copy**  
**Synopsis:** copy [source] [destination]  
**Description:** Copies one or more files to another location.

**6. move**  
**Synopsis:** move [source] [destination]  
**Description:** Moves or renames files or folders.

**7. del**  
**Synopsis:** del [file\_name]  
**Description:** Deletes one or more files.

**8. cls**  
**Synopsis:** cls  
**Description:** Clears all text from the command prompt screen.

**9. tasklist**  
**Synopsis:** tasklist  
**Description:** Displays all currently running processes on the system.

**10. taskkill**  
**Synopsis:** taskkill /IM [process\_name] /F  
**Description:** Ends or forcefully terminates a process by its name.

**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.