Lab Assignment2

1. Introduction of Internal and External Commands:

- Internal commands are built-in to the shell and don't require external programs. Examples include cd and echo.
- External commands are separate programs that can be executed from the shell. Examples include \(\mathbb{l}\)s and \(\mathbb{grep}\).

2. Feeding Output of One Command to Another Command by Pipelining:

- The [(pipe) symbol is used to send the output of one command as input to another command.
- This allows you to chain commands together to perform complex tasks.

3. expr and Locating Command:

- expr is a command for evaluating expressions in shell scripting.
- The locate command is used to quickly search for files in a pre-built database.

4. echo Command:

- echo is used to display text or variables on the terminal.
- It's often used for printing messages in shell scripts.

5. Using . and ..:

- refers to the current directory, while refers to the parent directory.
- These are useful shortcuts for navigating the file system.

6. Ways for Signing Off from Linux:

• Common ways to sign off include using the exit command or pressing ctrl+D at the command prompt.

7. Ping, Man, and Help Command:

• ping is used to test network connectivity by sending ICMP echo requests.

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- man displays the manual pages for commands and programs.
- help provides built-in help for shell commands.

8. Combining Commands:

• You can combine commands using operators like ; (semi-colon) to run them sequentially, or && (logical AND) to run them only if the previous command succeeds.

9. File Permissions and Changing Access Rights (chmod):

- File permissions control who can read, write, or execute a file.
- **chmod** is used to change file permissions in Linux.

10. Vi Editor and Its Basics:

- Vi is a text editor with modes for inserting, deleting, and navigating text.
- To enter text, press i for insert mode, type your text, and press Esc to exit insert mode.
- To save changes, type w and press Enter, and to quit, type q.

Self-Study Topics:

1. grep, sort, ps Command:

- grep is used for searching text using patterns.
- sort is used to sort lines in text files.
- ps shows information about running processes.

2. Study Basics of Shell Programming:

- Shell programming involves writing scripts to automate tasks using shell commands and control structures.
- Topics may include variables, conditionals, loops, and functions.

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