

Practical No. 1: Basic Ubuntu Commands and **ls** Command with All Options

Aim:

To implement basic Ubuntu commands and demonstrate the usage of **ls** command with all its options.

Commands Used and Description:

1. **pwd** (Print Working Directory):

- Displays the full path of the current directory.

Example Output:

```
arduino  
CopyEdit  
/home/administrator/Desktop
```

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2. **cd <directory>** (Change Directory):

- Used to move between directories.
- Example: **cd Desktop/**

3. **mkdir <foldername>** (Make Directory):

- Creates a new folder.
- Example: **mkdir new_folder**

4. **ls** (List Files):

- Lists the contents of a directory.

- Output example: `new_folder newfile.txt`

5. **touch <filename>:**

- Creates an empty file.
- Example: `touch newfile.txt`

6. **date:**

- Displays the current date and time.
- Output: `Friday 15 March 2024 01:28:15 PM IST`

7. **ps aux:**

- Displays all running processes with detailed info like PID, memory, CPU usage, etc.

8. **top:**

- Shows real-time system summary including CPU/memory usage and running processes.

9. **df -h:**

- Displays disk space usage in human-readable format.

10. **sudo apt-get update:**

- Updates the package lists for upgrades and new installations.

11. **grep "string" filename:**

- Searches for the given string inside a file.
- Example: `grep "gfg" newfile.txt`

Sample Outputs (from screenshots):

- `newfile.txt` and `new_folder` created successfully.
- `grep` command output: `welcome to gfg classroom.`

Conclusion:

The practical successfully demonstrated the use of basic Ubuntu commands like navigating directories, creating files/folders, listing contents, and checking system information. The `ls` command and other terminal commands were practiced for basic Linux system operations.