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1. Opening Command Prompt

- Method 1: Press Win + R, type cmd, and press Enter.
 - Method 2: Search for “Command Prompt” in the Start menu.
 - Method 3: Shift + Right Click in any folder → “Open Command Window Here”.
-

2. Basic Navigation

1. Check Current Directory

cd

2. List Files and Folders

```
dir
```

3. Change Directory

```
cd <folder>
```

Example:

```
cd Documents
```

4. Move Up One Directory

```
cd ..
```

5. Go to Root Directory

```
cd \
```

6. Open Specific Drive

```
D:
```

3. File and Folder Management

1. Create a Folder

```
mkdir <foldername>
```

Example:

```
mkdir Projects
```

2. Create an Empty File

```
echo. > filename.txt
```

3. Delete a File

`del <filename>`

4. Delete a Folder

`rmdir <foldername> /s`

/s - Deletes all contents in the folder.

/q - Quiet mode (no prompts).

5. Rename a File/Folder

`rename <oldname> <newname>`

6. Copy Files

`copy <source> <destination>`

Example:

`copy file.txt D:\Backup`

7. Move Files

`move <source> <destination>`

Example:

`move file.txt D:\Archive`

4. System Information and Diagnostics

1. Check IP Address

```
ipconfig
```

2. Display Network Details

```
ipconfig /all
```

3. Test Network Connection (Ping)

```
ping google.com
```

4. View Active Connections

```
netstat
```

5. System Information

```
systeminfo
```

6. View Running Processes

```
tasklist
```

7. Kill a Process

```
taskkill /IM <processname> /F
```

Example:

```
taskkill /IM notepad.exe /F
```

5. Disk Management

1. Check Disk Space

```
chkdsk
```

2. Format a Drive

```
format D:
```

3. Display Disk Information

```
diskpart
```

Type list disk in DiskPart prompt to see available drives.

6. User and System Management

1. List All Users

```
net user
```

2. Add a New User

```
net user <username> <password> /add
```

3. Delete a User

```
net user <username> /delete
```

4. Shutdown / Restart

```
shutdown /s /t 60
```

/s - Shutdown

/r - Restart

/t 60 - Delay in seconds

5. Abort Shutdown

```
shutdown /a
```

7. File Search and Filtering

1. Search for Files

```
dir filename /s
```

2. Find Specific Text in Files

```
find "text" <file>
```

3. List Files with Specific Extensions

```
dir *.txt
```

8. Environment Variables

1. View Environment Variables

```
set
```

2. Set a New Environment Variable

```
setx PATH "C:\Program Files\Python39"
```

9. Permissions and Ownership

1. Check Folder Permissions

```
icacls <folder>
```

2. Change Folder Permissions

```
icacls <folder> /grant <username>:F
```

/F - Full control

/R - Read-only

3. Take Ownership of a Folder

`takeown /f <folder>`

10. Advanced Commands

1. Run as Administrator

`runas /user:Administrator cmd`

2. Edit the Registry

`regedit`

3. Enable/Disable Services

`sc config <service_name> start= disabled`

4. View All Installed Drivers

`driverquery`

5. View All Installed Programs

`wmic product get name`

11. File Compression and Extraction

1. Zip Files

```
tar -a -cf archive.zip file.txt
```

2. Unzip Files

```
tar -xf archive.zip
```

12. Useful Shortcuts

Command	Description
cls	Clear screen
exit	Close Command Prompt
title	Set window title
color 0A	Change text color
prompt \$P\$G	Customize command prompt
ver	Display Windows version
time	Show current system time
date	Show current system date
help	List all commands
assoc	View file associations

Tips for CMD

- Use Tab to autocomplete file or folder names.
- Use Ctrl + C to stop any running command.
- Press Arrow Up to view the last executed command.
- Use > to redirect output to a file (e.g., dir > files.txt).

With these basics, you can start mastering the Command Prompt.