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MS DOS (Disk Operating System)

Disk operating system or Pc dos is the powerful operating system.MS-Dos means Microsoft Disk Operating System. Where PC-Dos means Microsoft disk operating system for personal computer. Dos is similar to old operating system which is also oldest system. A single user and all the resources are available to their user. The Dos software is divided into three parts and stored in three field on a floppy disk. When dos was launched, at that time harddisk were not available. So floppy disks were used. Therefore this operating system was stored in floppy disk.

Limitations of MS-DOS

1. Single-tasking: Only one operation at a time.
2. Character User Interface (CUI): All tasks are performed via typed commands.
3. No networking support.

What is a Command?

A **command** is a small set of instructions given to the computer to perform a specific task.

Types of Commands

1. **Internal Commands** – Loaded into memory during boot; always available.
2. **External Commands** – Require separate executable files (.EXE, .COM, .BAT).

Internal Commands

Loaded automatically during boot and always available. Not visible in directory listings.

Examples:

- CLS – Clears screen
- COPY CON – Creates file from console
- DIR – Lists files and folders
- DATE – Displays/sets date
- DEL – Deletes files
- MD – Makes directory
- CD – Changes directory
- VOLUME – Displays volume label

External Commands

Require external files to execute. Used for more complex tasks.

File types: .EXE, .COM, .BAT Examples:

- EDIT – Opens text editor
- DISKCOPY – Copies entire disk
- MODE – Configures devices
- SCANDISK – Checks disk for errors
- FIND – Searches text in files

- XCOPY – Copies files/folders recursively
- MOVE – Moves files

Why Do We Use CMD in MS-DOS?

CMD (Command Prompt) is the **gateway** to interacting with MS-DOS. Unlike modern operating systems that use icons and windows, MS-DOS relies entirely on **typed commands**. Here's why CMD is essential:

1. it's the Control Center

CMD lets users **communicate directly** with the operating system. Every task—whether it's opening a file, creating a folder, or checking disk space—is done by typing a command.

Think of CMD as the “language” MS-DOS understands. If you want something done, you have to speak its language.

2. No Mouse, No GUI

MS-DOS doesn't have a graphical interface. That means:

- No clicking
- No dragging
- No icons

Instead, everything is done through **text-based instructions** in CMD.

3. Precision and Speed

CMD allows users to:

- Perform tasks quickly with short commands
- Access deep system functions that aren't available through menus
- Automate repetitive tasks using batch files

For example: `COPY file.txt D:\Backup` — copies a file instantly without opening any folder.

4. Learning the Foundations

Using CMD helps students:

- Understand how operating systems work behind the scenes
- Build confidence in using command-line tools
- Prepare for advanced environments like Linux, PowerShell, or Git Bash

5. Real-World Relevance

Even today, CMD is used for:

- Troubleshooting system issues
- Running scripts

- Managing files in professional IT environments

In Summary:

CMD is not just a tool—it's the **interface**, the **language**, and the **engine** of MS-DOS. Learning to use it means learning how computers really work beneath the surface.

Command Prompt Basics

To open Command Prompt:

- Press Windows + R, type cmd, and hit Enter.

Prompt Format:

C:\>

- C: → Drive letter
- : → Root directory
- \ → Separator
- > → Command status indicator

Drives A: and B: were reserved for floppy disks.

How to Create a Folder in CMD

Command:

cmd

MD foldername

or

cmd

MKDIR foldername

Example:

cmd

MD Projects

This creates a folder named **Projects** in the current directory.

How to Create a File in CMD

Method 1: Using COPY CON

cmd

COPY CON filename.txt

After typing this, CMD waits for input. Type your content, then press:

Code

Ctrl + Z → Enter

Skyline Computer

<https://skyline-computer.netlify.app>

Example:

cmd

```
COPY CON notes.txt
This is my first file.
^Z
```

This creates a file named **notes.txt** with the content “This is my first file.”

Method 2: Using ECHO (Quick content)

cmd

```
ECHO Hello students > welcome.txt
```

This creates a file named **welcome.txt** with the text “Hello students”.

More Command

Command	Use	Syntax
DIR	Lists files and folders in a directory	DIR [drive:] [path]
CD / CHDIR	Changes current directory	CD [foldername]
MD / MKDIR	Creates a new directory	MD [foldername]
RD / RMDIR	Removes an empty directory	RD [foldername]
COPY	Copies files from one location to another	COPY [source] [destination]
XCOPY	Copies files and folders recursively	XCOPY [source] [destination] [/E]
DEL / ERASE	Deletes one or more files	DEL [filename]
REN	Renames a file or folder	REN [oldname] [newname]
TYPE	Displays contents of a text file	TYPE [filename.txt]
EDIT	Opens MS-DOS text editor	EDIT [filename.txt]
CLS	Clears the screen	CLS
ATTRIB	Displays/changes file attributes	ATTRIB [+R/-R +H/-H +S/-S] [filename]
TREE	Shows directory structure graphically	TREE [drive:] [path]
FORMAT	Formats a disk for use	FORMAT [drive:] [/Q]
CHKDSK	Checks disk for errors	CHKDSK [drive:] [/F]
DATE	Displays or sets system date	DATE [MM-DD-YYYY]
TIME	Displays or sets system time	TIME [HH:MM:SS]
VOL	Displays volume label and serial number	VOL [drive:]
VER	Displays DOS version	VER
EXIT	Exits the command prompt	EXIT
HELP	Displays help for commands	HELP [command]

MS-DOS Command Categories

1. Files and Folders Management

- COPY – Copies files
- DIR – Lists files/folders
- DEL / ERASE – Deletes files
- CD – Changes directory
- EXPAND – Decompresses files
- FC – Compares files
- MD / MAKEDIR – Creates folder
- MOVE – Moves files
- PRINT – Prints text file
- RD / RMDIR – Deletes folder
- REN / RENAME – Renames file/folder
- REPLACE – Overwrites files
- TREE – Shows directory structure
- TYPE – Displays file contents

2. Command Line Setup

- CLS – Clears screen
- CMD – Opens new command prompt
- COLOR – Sets text/background color
- HELP – Displays help
- EXIT – Exits command prompt

3. Applications and Processes

- SHUTDOWN – Shuts down/reboots system
- TASKLIST – Lists running tasks
- REG – Opens registry editor

4. Disk Management

- CHKDISK – Checks disk and shows stats
- DEFrag – Defragments disk
- CONVERT – Converts FAT to NTFS
- DISKPART – Manages partitions
- FORMAT – Formats disk
- LABEL – Manages volume labels
- RECOVER – Recovers data from damaged disk
- VOL – Displays volume label and serial number

5. System Information

- DATE – Sets/displays date
- TIME – Sets/displays time
- HOSTNAME – Shows computer name
- SYSTEMINFO – Displays system configuration

- VER – Shows Windows version

6. Network Commands

- IPCONFIG – Displays network info
- PING – Checks host availability
- NSLOOKUP – Resolves domain names
- ROUTE – Displays routing tables