

Introduction to CMD Commands

- Understanding the command prompt and its significance in navigating the operating system.
- Basic structure of CMD commands and how to execute them efficiently.
- Significance of CMD commands in managing files, directories, and drives.
- Overview of the lab manual and practical exercises for hands-on learning.
- Visual guide to the CMD interface with a screenshot of the command prompt.



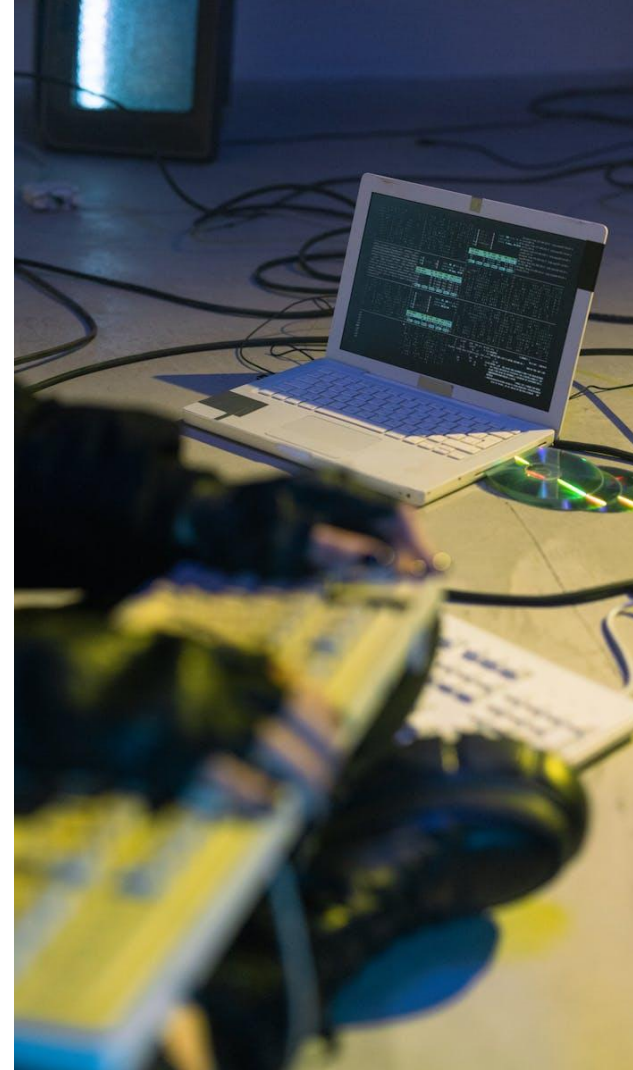
Getting Started with CMD

- Accessing the command prompt on Windows systems and initial setup.
- Differences between graphical user interface and command-line interface.
- Understanding the command prompt layout and cursor behavior.
- Running your first command and interpreting the output.
- Screenshot showing the initial CMD screen with the prompt.



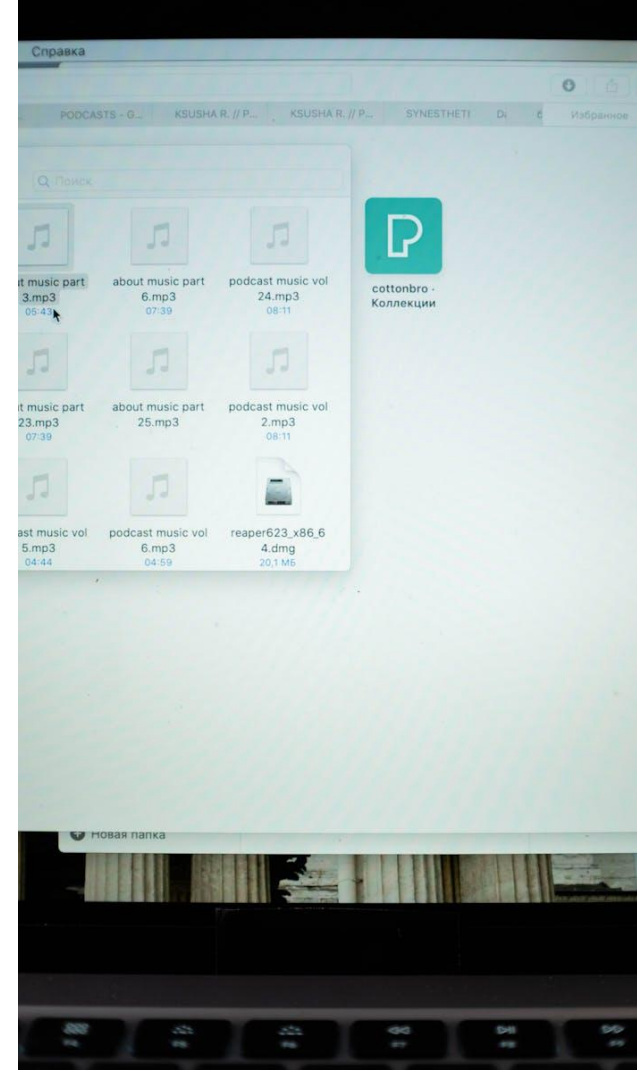
Running Basic Commands

- How to execute simple commands like 'ver' to check system version.
- Understanding command syntax and case sensitivity.
- Using 'nul' to test invalid commands and error messages.
- Importance of pressing ENTER after each command.
- Sample command prompt showing command execution and response.



Viewing Directory Contents

- Using 'dir' command to list files and subdirectories.
- Understanding directory structure and root directory.
- Using switches like '/p' for paging and '/w' for wide view.
- Practical example with screenshot of directory listing.
- How to interpret directory information including file size and date.



Changing Directories and Navigation

- Using 'cd' command to change from one directory to another.
- Moving to specific directories and understanding relative paths.
- Using 'cd ..' to move up one level in directory hierarchy.
- Practical scenario of navigating nested directories.
- Screenshot showing directory change commands and prompts.



Summary and Practical Tips

- Recap of essential CMD commands and their practical applications.
- Tips for efficient command-line navigation and management.
- Resources for further learning and practice.
- Encouragement to experiment with commands safely.
- Final visual guide to the command prompt as a quick reference.



Managing Drives and Storage Devices

- Switching between drives like C:, A:, and B: using drive letters.
- Understanding the purpose of different drives and storage media.
- Viewing contents of different drives without switching using full path.
- Practical example of changing drives and viewing their contents.
- Screenshot illustrating drive change commands and output.



Creating and Deleting Directories

- Using 'md' to create new directories for better organization.
- Verifying new directories with 'dir' command.
- Deleting directories with 'rd' and the importance of being in a different directory.
- Understanding the significance of subdirectories and directory structure.
- Visual example of directory creation and deletion with screenshots.



File Operations: Copying, Renaming, and Deleting

- Copying files with 'copy' command to create backups or transfer files.
- Renaming files with 'ren' for better organization or clarity.
- Deleting files with 'del' to free up space and remove unnecessary data.
- Using wildcards like '*.old' to manage multiple files efficiently.
- Screenshots of file operations demonstrating command inputs and results.



Advanced File and Directory Management

- Understanding command options and switches for advanced control.
- Combining commands for complex operations like copying and renaming.
- Handling errors and invalid commands with appropriate messages.
- Best practices for organizing and maintaining directory structures.
- Visual examples of advanced command usage with screenshots.

