Day-1 Linux Commands

Date & Time

- date – Displays the current date and time.

- date "+%D" – Shows the date in MM/DD/YY format.

- date "+%D %T" – Shows date and time in MM/DD/YY HH:MM:SS format.

- date "+%Y-%m-%d" – Displays date in YYYY-MM-DD format.

- date --date "tomorrow" – Displays the date for tomorrow.

- date --date "2 years ago" – Shows the date 2 years before today.

Calculator

- bc – Launches a basic calculator in terminal.

- bc <<< "12/5" – Divides 12 by 5 using bc.

- bc <<< "scale=2; 12/5" – Divides with 2 decimal precision.

- bc <<< "2>5" – Performs a comparison (returns 0 or 1).

- bc <<< "2^10" – Computes 2 raised to the power 10.

System Update

- sudo apt update – Updates package index.

- sudo apt upgrade – Upgrades all installed packages.

- sudo apt install gcc – Installs the GCC compiler.

- sudo apt install build-essential – Installs essential tools for compiling.

- sudo apt install ncal – Installs the ncal calendar tool.

Navigation & File Handling

- ls – Lists files in current directory.

- cd <dir> – Changes to specified directory.

- cd – Goes to home directory.

- cd - – Switches to the previous directory.

- mkdir <dir> – Creates a new directory.

- mkdir -p d1/d2 – Creates nested directories.

- pwd – Prints current directory path.

- touch <file> – Creates a new empty file.

- nano <file> – Opens file in nano text editor.

- cat <file> – Displays file contents.

- cat file1 > file2 – Redirects contents to another file.

- cat file1 >> file2 – Appends contents to another file.

- cat -n <file> – Displays file with line numbers.

- tac <file> – Displays file in reverse line order.

- cp file dir/ – Copies file to a directory.

- cp -r dir1 dir2/ – Recursively copies a directory.

- mv old new – Renames or moves a file/directory.

- rm file – Deletes a file.

- rm -r dir – Deletes a directory and its contents.

- rmdir dir – Removes an empty directory.

System Info

- whoami – Displays current logged-in user.

- uname – Shows system information.

- uname -r – Shows kernel version.

- uname -a – Shows all system info.

- echo $SHELL – Displays current shell path.

- printenv SHELL – Prints the shell environment variable.

Help & Docs

- whatis <command> – Describes a command in one line.

- whereis <command> – Shows location of binaries, source, and man page.

- info <command> – Opens detailed command documentation.

- man <command> – Opens manual for a command.

Echo & Print

- echo "text" – Prints text to the terminal.

- echo -e "text\t" – Enables escape characters like tab or newline.

- echo -n "text" – Prints without newline at end.

- echo `date` – Prints the output of the date command.

- printf "text\n" – Formats and prints text.

Sequences & Math

- seq 1 10 – Prints numbers 1 to 10.

- seq 1 3 10 – Prints numbers from 1 to 10 with step of 3.

- seq -s " " 5 10 – Prints numbers with space separator.

- rev <<< linux – Reverses the string "linux".

History & Status

- history – Displays command history.

- echo $? – Shows exit status of last command.

- false – Returns an unsuccessful (non-zero) exit status.

Calendar

- cal – Displays current month's calendar.

- cal 7 2025 – Displays calendar for July 2025.

- cal -3 – Shows previous, current, and next month.

Word & Character Count

- wc <file> – Shows word, line, and byte count of a file.

Compilation & Execution

- gcc file.c – Compiles a C program.

- gcc file.c && ./a.out – Compiles and runs C program.