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## Task – 3

### **Basic Commands:**

ls - Lists files and directories in the current directory.

cd - Changes the current directory.

pwd - Prints the current working directory.

mkdir - Creates a new directory.

rmdir - Removes an empty directory.

touch - Creates an empty file.

rm - Deletes files or directories.

cp - Copies files or directories.

mv - Moves or renames files or directories.

cat - Displays the contents of a file.

more - Views file content one screen at a time.

less - Similar to more, but allows backward navigation.

echo - Prints text or variables to the terminal.

find - Searches for files or directories in a given path.

locate - Quickly finds files using a pre-built database.

head - Displays the first few lines of a file.

tail - Displays the last few lines of a file.

clear - Clears the terminal screen.

### **File Permissions and Ownership:**

chmod - Changes file or directory permissions.

chown - Changes file or directory ownership.

chgrp - Changes group ownership of a file or directory.

### **File Compression:**

tar - Archives files into a .tar file.

gzip - Compresses files using gzip compression.

gunzip - Decompresses gzip-compressed files.

zip - Compresses files into a .zip archive.

unzip - Extracts files from a .zip archive.

### **Networking:**

ping - Checks connectivity to another host.

wget - Downloads files from the web.

curl - Transfers data from or to a server.

ssh - Connects to a remote server securely.

scp - Securely copies files between computers.

### **Process Management:**

ps - Displays running processes.

top - Shows real-time system resource usage.

kill - Terminates a process by its ID.

jobs - Lists all background jobs.

fg - Brings a background job to the foreground.

### **Disk Usage:**

df - Displays disk space usage.

du - Displays directory size.

mount - Mounts a file system.

umount - Unmounts a file system.

## **System Information:**

uname - Displays system information.

hostname - Shows or sets the system's hostname.

whoami - Displays the current user.

id - Displays user ID and group ID.

uptime - Shows how long the system has been running.

date - Displays or sets the system date and time.

cal - Displays a calendar.

## **User Management:**

adduser - Adds a new user.

passwd - Changes a user's password.

logout - Logs out of the current session

ssh - Connects to a remote server securely.

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