Practical Questions: File Management in Linux

1. Create and Manage Files

Scenario:

You are setting up a new project. You need to create some text files to store configuration.

Task:

- Create a directory named projectX
- Inside it, create 3 empty files: config.txt, notes.txt, log.txt
- Use touch and 1s -1 to confirm

2. Copying and Moving Files

Scenario:

You accidentally saved a file in the wrong folder. You need to move it to the correct one.

Task:

- Create a file temp.txt in /home/student/
- Move it to /home/student/projectX/
- Then copy temp.txt as backup.txt in the same folder

3. Renaming Files

Scenario:

You saved a file with a wrong name. Now you want to rename it.

Task:

- Rename config.txt to main_config.txt
- Check with 1s

4. Deleting Files and Directories

Scenario:

Your directory has outdated files. You want to delete them.

✓ Task:

- Create a folder old_files/ and add 3 test files
- Delete one file using rm
- Delete the entire folder using rm -r old_files/

5. File Content Operations

Scenario:

You want to review, edit, and append content in files.

Task:

- Use cat, echo, >>, and > to:
 - o Create a file report.txt and write "Project Report" inside
 - Append the line "Submitted by Team A"
 - o Display the full content using cat report.txt

6. Compare Two Files

Scenario:

You have two configuration files and want to find the difference.

Task:

- Create two files configA.txt and configB.txt with different content
- Use diff configA.txt configB.txt to compare

7. Searching Files with Pattern

Scenario:

You forgot where you saved your file but remember the filename contains "invoice".

Task:

 Use find command to locate all files with "invoice" in the name under your home directory

8. Count Number of Lines and Words

Scenario:

You want to check the size of a log file in terms of lines and words.

Task:

- Create a sample file with content using echo or manually
- Use wc -1, wc -w, and wc -c on the file

• 9. Redirect Output to File

Scenario:

You want to store the output of a command into a file for future reference.

Task:

• Run ls -1 /etc and redirect output to a file called etclist.txt

10. Using Wildcards in File Operations

Scenario:

You have many .log files and want to delete them all at once.

Task:

- Create multiple files: a.log, b.log, c.txt
- Delete only .log files using:

11. Display First or Last Few Lines of a File

Scenario:

You have a log file and want to see the latest 10 lines.

Task:

- Create a test log file with 20 lines using a loop
- Use tail -n 10 and head -n 5

12. Find File Size and Disk Usage

Scenario:

You want to know how much disk space a folder is using.

Task:

- Use du -sh <directory>
- Use ls -lh to check file size in human-readable format