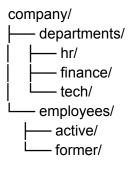
Linux Commands Practice Questions -2

File and Directory Operations

- 1. How do you copy a file named "report.pdf" from your home directory to a folder called "documents"?
- 2. What is the difference between rmdir and rm -rf commands?
- 3. How do you move a file named "data.csv" from the "downloads" folder to the "projects" folder?
- 4. What command shows your current location in the file system?
- 5. How do you create three empty files named "log1.txt", "log2.txt", and "log3.txt" simultaneously?
- 6. How do you change a directory name from "old project" to "new project"?
- 7. How do you delete a file named "temp.log" without any confirmation prompt?
- 8. Display your current directory path using a command.
- 9. Show directory contents with file sizes in human-readable format (KB, MB, GB).
- 10. Explain the meaning of the first character in file permissions (d, -, I) when using Is -I.
- 11. List all files including those starting with a dot (.) in the "/etc" directory.
- 12. Show only files that start with a dot in your home directory.
- 13. Create a directory structure "workspace/projects/web/frontend" in a single command.

Create the following nested structure in one command:



14.

15. Create a directory named "test_dir", then remove it and verify it's gone.

File Content and Text Processing

- 16. Save the manual page of the find command to a file named "find_manual.txt".
- 17. Display the first 15 lines and last 8 lines of "find manual.txt".
- 18. Copy "find_manual.txt" to a folder named "manuals" and rename the copy to "find_help.txt".
- 19. Count the total lines, words, and characters in "find manual.txt".
- 20. Show your last 15 executed commands.
- 21. Create a tar.gz archive of your home directory's Documents folder.
- 22. Create a zip archive of your Desktop folder and list its contents without extracting.
- 23. Set permissions for "script.sh" to be readable, writable, and executable by owner only.
- 24. Change the owner of "database.txt" to user "admin".
- 25. Display currently running processes in your terminal, all system processes, and sort processes by CPU usage.
- 26. Show the current date/time and display the calendar for the current month.
- 27. Set the system date to January 15th, 2025, 2:30 PM.

System Information Commands

- 28. Research and explain these commands: uptime, df, du, free.
- Create a directory "linux_lab", navigate into it, create "permissions_test.txt", check its
 default permissions, modify umask to 022, create "new_permissions_test.txt", and
 compare their permissions.
- 30. Create "original.txt" and make a hard link named "hard copy.txt" pointing to it.
- 31. Create "source.txt" and make a symbolic link named "sym_link.txt" pointing to it.
- 32. Copy the entire "projects" directory from a remote server to your local "Downloads" folder using SCP.
- 33. Download files from a public FTP server like ftp.gnu.org using command line FTP client.
- 36. How do you remove a directory named "old_data" containing files and subdirectories?
- 37. List all files in "/var/log" showing detailed information including hidden files.
- 38. Create a file named "config.txt" in the path "/opt/myapp/config/" using command line.
- 39. Search for the word "error" in all ".log" files within the current directory and subdirectories.
- 40. Create a directory "myproject" with permissions 755 (rwxr-xr-x).
- 41. Create a compressed tar archive named "backup.tar.gz" containing all files and subdirectories in "/home/user/documents".
- 42. Give read and write permissions to owner and group, but only read permission to others for "shared.txt".
- 43. Find the size of "video.mp4" and display it in human-readable format (MB/GB).
- 44. Find all files in "/home" and subdirectories that were modified in the last 7 days.
- 45. Compare "version1.txt" and "version2.txt" and show only the differences.
- 46. Synchronize "/home/user/photos" with "/backup/photos" preserving all file attributes.

- 47. Extract characters 10-25 from each line in "data.txt".
- 48. Extract only the file "readme.txt" from "archive.tar.gz" without extracting the entire archive.
- 49. Count how many times the word "function" appears in "script.js".

Advanced Questions

- 52. How do you monitor real-time changes to a log file named "application.log"?
- 53. How do you find all files larger than 100MB in your entire file system?
- 54. How do you create a file with specific content using command line without opening an editor?
- 55. How do you compress a directory using gzip and preserve the original?
- 56. How do you find all files owned by user "john" in the "/home" directory?
- 57. How do you schedule a command to run every day at 9 AM using cron?
- 58. How do you check disk usage of the current directory and sort by size?
- 59. How do you find and kill a process by name?
- 60. How do you create a symbolic link that points to a directory instead of a file?
- 61. How do you find all executable files in your PATH?
- 62. How do you merge two sorted files into one sorted file?
- 63. How do you display only unique lines from a file that contains duplicates?
- 64. How do you monitor system resource usage in real-time?
- 65. How do you find files that are exactly 0 bytes (empty files)?
- 66. How do you change file timestamps without modifying content?
- 67. How do you create a file that can only be read by the owner and no one else?
- 68. How do you find broken symbolic links in a directory?

69.	How do	vou c	copy files	while	preserving	their	original	timestamps?
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70. How do you display the last 50 lines of a log file and continue monitoring new additions?