MEDIUM LEVEL — 50 COMMANDS

(Permissions, users, processes, disk, networking)

1. `chmod 777 file`
   → Gives **full permissions** to all users
2. `chmod 755 file`
   → Owner full, others read-execute
3. `chmod +x file`
   → Makes file executable
4. `chmod u+rwx file`
   → Owner gets read, write, execute
5. `chmod g-w file`
   → Removes write permission from group
6. `ls -l file`
   → Shows file permissions
7. `chown user file`
   → Changes file owner
8. `chown user:group file`
   → Changes owner and group
9. `stat file`
   → Detailed file information
10. `umask`
    → Shows default permission mask
11. `umask 022`
    → Sets default permissions
12. `df -h`
    → Disk space usage
13. `du -sh folder`
    → Folder size summary
14. `du -a folder`
    → Shows size of all files
15. `free -h`
    → Shows RAM usage
16. `top`
    → Live process monitor
17. `htop`
    → Enhanced process viewer
18. `ps`
    → Shows current processes
19. `ps -ef`
    → Shows all running processes
20. `ps aux`
    → Detailed process list

21. `kill PID`
    → Terminates process
22. `kill -9 PID`
    → Forcefully kills process
23. `pkill name`
    → Kills process by name
24. `bg`
    → Resume job in background
25. `fg`
    → Bring job to foreground
26. `jobs`
    → Shows background jobs
27. `nice -n 10 command`
    → Runs command with priority
28. `renice -n 5 PID`
    → Changes priority of process
29. `adduser username`
    → Creates new user
30. `deluser username`
    → Deletes user
31. `passwd username`
    → Changes user password
32. `su username`
    → Switch user
33. `su -`
    → Switch to root environment
34. `sudo command`
    → Run command as admin
35. `sudo -i`
    → Switch to root shell
36. `who`
    → Shows logged-in users
37. `w`
    → Shows users and activity
38. `last`
    → Shows login history
39. `ping google.com`
    → Tests network connectivity
40. `ip a`
    → Shows IP address
41. `ip route`
    → Shows routing table
42. `ifconfig`
    → Network interface info (older)
43. `netstat -tuln`
    → Shows open ports

44. `ss -tuln`
    → Modern replacement of netstat
45. `tree`
    → Directory tree view
46. `watch df -h`
    → Live disk usage monitor
47. `watch free -h`
    → Live memory usage monitor
48. `uptime`
    → System running duration
49. `reboot`
    → Restarts system
50. `shutdown -h now`
    → Shuts down system immediately