1. Q1. Compress all `.log` files older than 7 days from `/var/log/app/` and store them in `/backup/logs/`.  
   Hint: Use `find`, `tar`, and `gzip`.
2. Q2. Restore `/etc/config.conf` from `/backup/etc/config.conf` with ownership as `root` and permissions `644`.
3. Q3. In `/etc/app/config.txt`, change `ENV=dev` to `ENV=prod` without opening the file (use `sed` or `awk`).
4. Q5. Display the kernel version and OS release details.
5. Q6. List three commands to monitor CPU, memory, and top-consuming processes in real-time.
6. Q7. Create a user `murali` with home directory `/home/murali`, group `developers`, and password never expires.
7. Q8. Find all users with a valid login shell (not `/sbin/nologin`).
8. Q9. Your app can’t connect to `10.0.0.5:3306`. Check connectivity, verify port, and trace the route.
9. Q10. Write a bash script to ping servers from `servers.txt` and log reachable servers in `success.log` and unreachable ones in `failed.log`.
10. Q11. Find all files owned by `root` in `/etc` with `777` permissions.
11. Q12. Extract all failed login attempts from system logs.
12. Q13. A Java process consumes high memory. Find it, check memory usage, and kill it gracefully.
13. Q14. Check disk utilization and find which directory under `/var` consumes the most space.
14. Q15. Write a shell script to back up `/var/www/html` to `/backup/html`, keep only last 5 backups.