User Management Practical Questions

1. **Create a new user** named `devuser` with a home directory `/home/devhome` and set a password.
2. Add a **comment (Full Name)** “Developer User” while creating a user.
3. Lock the user `testuser` and then unlock it.
4. Modify the shell of `student1` to `/bin/bash`.
5. Set an **expiry date** for user `intern` to expire on **31st August 2025**.
6. Force a user `admin` to **change their password on the next login**.
7. Delete a user `olduser` along with their home directory.
8. Find out which users are currently logged in.
9. List all users in your system. (Hint: `/etc/passwd`)
10. View the last login time of user `john`.

Group Management Practical Questions

1. Create a new group called `devteam`.
2. Add user `alex` to the group `devteam` as a **secondary group**.
3. Change the **primary group** of user `mark` to `designers`.
4. Remove user `lisa` from group `interns`.
5. List all groups the user `anna` belongs to.
6. Create a group with GID `1234` and name it `projectx`.

7. Rename the group `sales` to `sales_team` (AlmaLinux/RHEL systems using `groupmod`).

8. Delete group `tempgroup`.

Permissions Practical Questions

1. Create a file called `demo.txt`. Give **read and write** permission to the owner, and only **read** permission to group and others.

2. Create a directory called `projects`. Give **full permissions** to the owner, **read/execute** to group, and **no access** to others.

3. Set the permissions of `file1.txt` to `764` using **symbolic** and **numeric** method.

4. Check the permissions of file `/etc/passwd` and explain what each character means.

5. Change the default permissions (umask) for a user to `027`. Then test by creating a file and directory.

6. Use `chmod` to **remove execute** permission for others on a script file `backup.sh`.

7. Create a script file and make it executable only for the **owner**.

🔹 Ownership Practical Questions

1. Create a file `report.txt` and change the ownership to user `manager` and group `reports`.

2. Use `chown` to assign ownership of `/var/log/custom.log` to user `admin` and group `admins`.

3. Use `chgrp` to change only the group ownership of `/home/student/project` to `devteam`.

4. Check the current owner and group of `/etc/shadow`.

5. Create a directory `/data/teamA`, assign ownership to user `alice` and group `teamA`.

6. Transfer all files from user `student1` to `student2` using recursive ownership change.