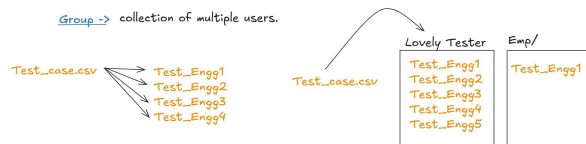
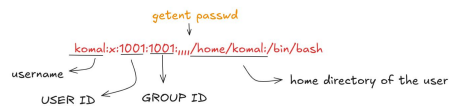


### 3. GROUP MANAGEMENT

Group -> collection of multiple users.



Purpose -> to grant permissions/access to a set of users at once with the help of 'Group Management'



adduser komal

1. user gets created: komal
2. USER ID (UID) will be assigned to the user: 1001
3. A home directory for that particular user will also be created: /home/komal
4. A group is also created with the same username: komal
5. Group ID (GID) will be assigned to that group: 1001

#### Types of Groups

##### 1. Primary Group:

- Primary group gets created when a user is added to the system.
- Default group which will be present for the users.
- Every user will have exactly 1 primary group.
- No matter which kind of user it is, each & every user in the system, will have a primary group.

##### 2. Secondary Group:

- Additional groups which can be created by the users & then other users can be added to this group.
- For adding users to a group and granting them shared access & permissions for a particular resource.
- Every user can be a part of multiple secondary groups.

#### COMMANDS

1. To list all the groups -> `getent group` OR `cat /etc/group`

2. To create a group -> `groupadd group_name` groupadd devs

	UID	GID
ludhesh	1001	1001
devs		1002
shantling	1002	1003

3. To add users in a group ->

- |   |  |
|---|--|
| i. <code>usermod -aG group_name username</code><br><br>-a -> append (add)<br>G -> groupname<br><br><span style="color: orange;">usermod -aG devs komal</span> | ii. <code>gpasswd -a username group_name</code><br><br>-a -> append (add)<br><br><span style="color: orange;">gpasswd -a ludhesh devs</span> |
|---|--|

4. To remove a user from a group -> `gpasswd -d username group_name`  
gpasswd -d ludhesh devs

5. To remove/delete a group -> `groupdel group_name`  
groupdel devs

### TASK

1. View the list of existing users in the system.
  2. Create a new regular user named Raj using default user.
  3. Switch to the Raj user w his directory and verify the current identity.
  4. Try switching to root user as Raj.
  5. Log out of the Raj user and return to the previous session. -> exit
  6. Now delete the user Raj
  7. View all the groups currently present on the system.
  8. Create two groups: devs and testers.
  9. Add a user named Nikita to the devs group.
  10. Switch as Nikita user and add a user Shubham and add Shubham to testers group. ✗
  11. Remove Nikita from the devs group as default user.
  12. Delete the testers group.
- history