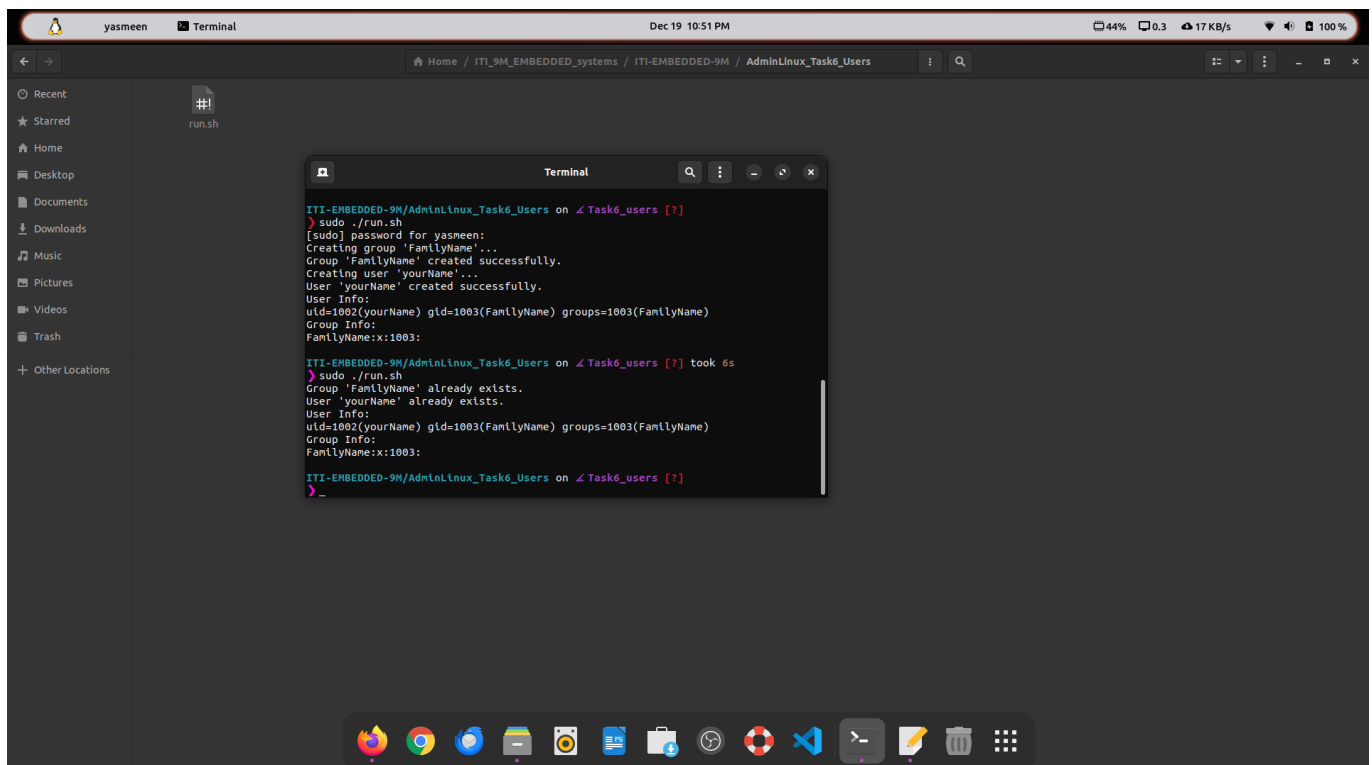# Yasmeen Yasser Mohamed

Task6_adminLinux_Users 😃

Section 1:

> What is a Bash script that creates a user named 'yourName' and adds them to the
> 'FamilyName' group, checking for existing user and group, and displaying
> relevant information for the user and group

> Explanation:

```
* Check for the Group:
    The getent group command checks if the group exists.
    If the group doesn't exist, it uses groupadd to create the group.

* Check for the User:
    The id command checks if the user exists.
    If the user doesn't exist, it uses useradd to create the user, setting
the group as their primary group (-g).

* Display Information:
    The id command displays detailed information about the user (e.g., user
ID, group ID, and associated groups).
```
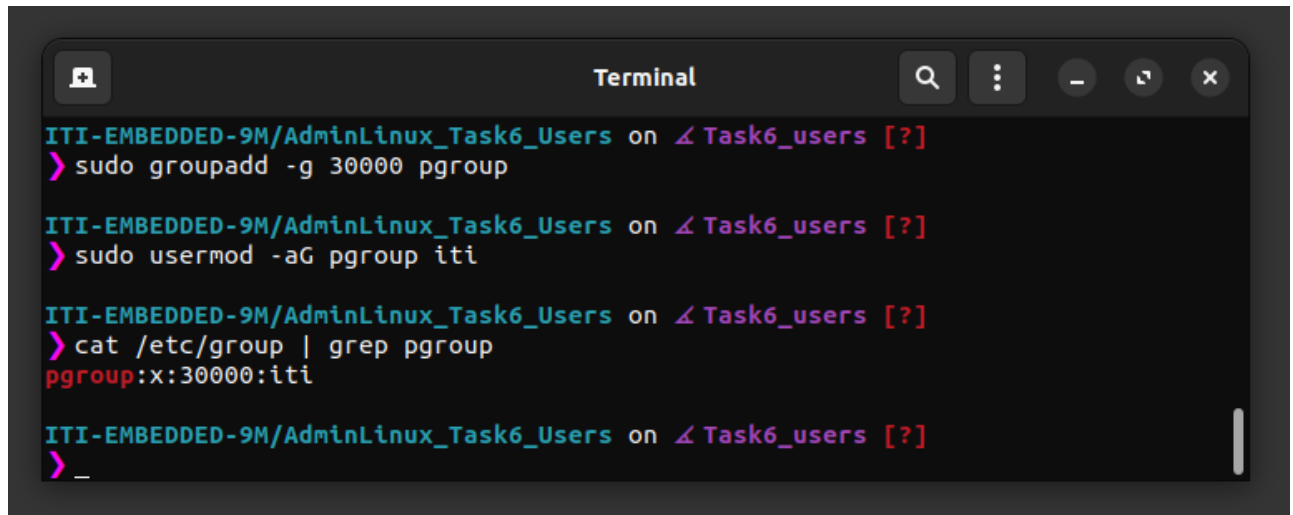
```
        The getent group command shows details of the group.

  * User Home Directory:
        The -m option in useradd ensures that a home directory is created for
  the user.
```
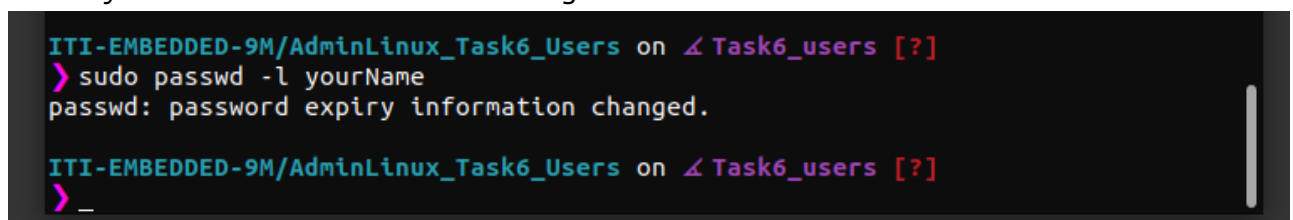
Section 2:

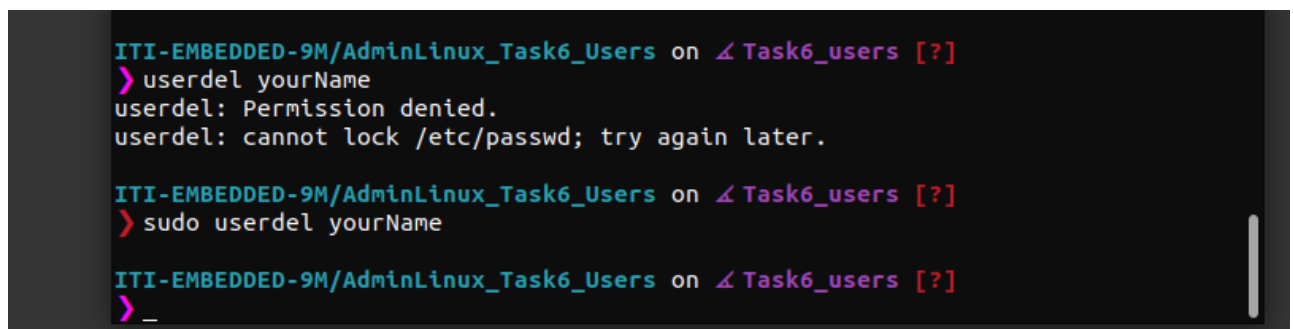1. Create a supplementary (Secondary) group called pgroup with group ID of 30000

```
ITI-EMBEDDED-9M/AdminLinux_Task6_Users on ⊿ Task6_users [?]
❯ sudo groupadd -g 30000 pgroup

ITI-EMBEDDED-9M/AdminLinux_Task6_Users on ⊿ Task6_users [?]
❯ sudo usermod -aG pgroup iti

ITI-EMBEDDED-9M/AdminLinux_Task6_Users on ⊿ Task6_users [?]
❯ cat /etc/group | grep pgroup
pgroup:x:30000:iti

ITI-EMBEDDED-9M/AdminLinux_Task6_Users on ⊿ Task6_users [?]
❯ _
```

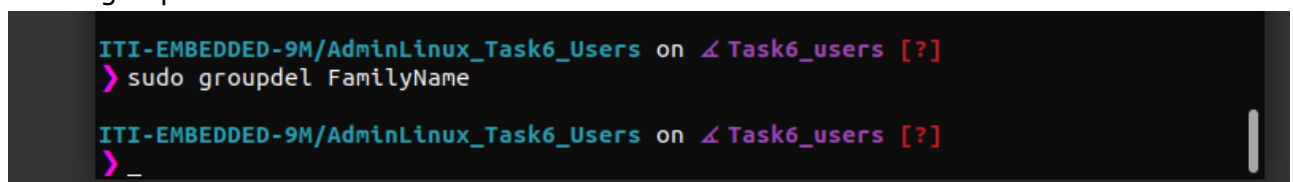2. Lock any user created account so he can't log in

```
ITI-EMBEDDED-9M/AdminLinux_Task6_Users on ⊿ Task6_users [?]
❯ sudo passwd -l yourName
passwd: password expiry information changed.

ITI-EMBEDDED-9M/AdminLinux_Task6_Users on ⊿ Task6_users [?]
❯ _
```

3. Delete user account

```
ITI-EMBEDDED-9M/AdminLinux_Task6_Users on ⊿ Task6_users [?]
❯ userdel yourName
userdel: Permission denied.
userdel: cannot lock /etc/passwd; try again later.

ITI-EMBEDDED-9M/AdminLinux_Task6_Users on ⊿ Task6_users [?]
❯ sudo userdel yourName

ITI-EMBEDDED-9M/AdminLinux_Task6_Users on ⊿ Task6_users [?]
❯ _
```

4. Delete group account

```
ITI-EMBEDDED-9M/AdminLinux_Task6_Users on ⊿ Task6_users [?]
❯ sudo groupdel FamilyName

ITI-EMBEDDED-9M/AdminLinux_Task6_Users on ⊿ Task6_users [?]
❯ _
```

5. State the difference between adduser and useradd with example shown.
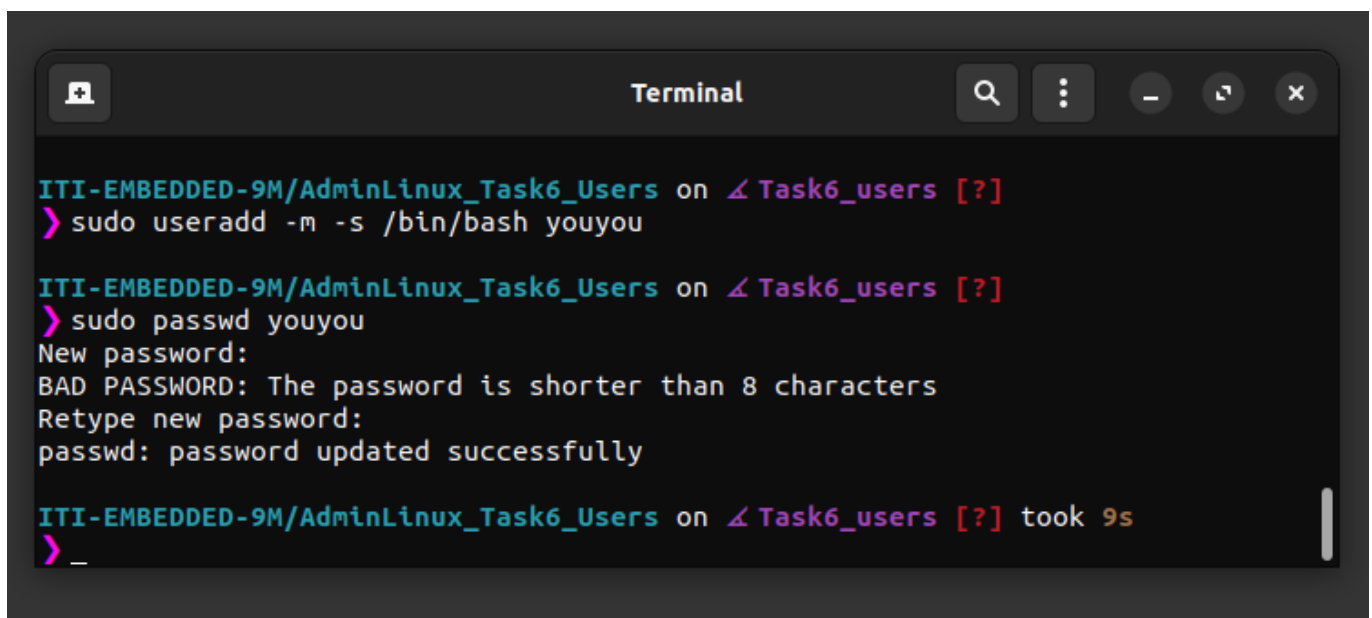
useradd: Low-Level Command

> Description:

```
useradd is a low-level, system utility for creating a user account. It does
not set up things like home directories or default configurations unless
explicitly instructed(get installed by defuilt in the system ).
```

> Key Features:

- Does not automatically create a home directory unless the -m option is used.
- Does not prompt for additional details (password, full name, shell, etc.) unless specified in the command.
- Ideal for scripting and advanced control.

> Example:

adduser: High-Level Command

> Description:

```
adduser is a higher-level perl script that simplifies user creation. It is
more user-friendly and sets up everything needed for the user (e.g., home
directory, password, and default configurations) it use the useradd command
.
```

> Key Features:

- Automatically creates the home directory.
- Prompts interactively for details such as full name, password, and shell.
- Suitable for interactive use by administrators.

> Example:

```
ITI-EMBEDDED-9M/AdminLinux_Task6_Users on ∠ Task6_users [?] took 9s
❯ sudo adduser uu
Adding user `uu' ...
Adding new group `uu' (1003) ...
Adding new user `uu' (1003) with group `uu' ...
Creating home directory `/home/uu' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for uu
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n]

ITI-EMBEDDED-9M/AdminLinux_Task6_Users on ∠ Task6_users [?] took 10s
❯ _
```

Summary of Key Differences

Feature	useradd	adduser
Level	Low-level utility	High-level perl script
Home Directory Creation	Not created by default (-m flag)	Created automatically
Interactive Prompts	None (everything must be specified)	Prompts for password and details
Ease of Use	Requires more options to configure	User-friendly and easier to use
Default Configurations	Minimal setup	Full default setup (e.g., skeleton files)