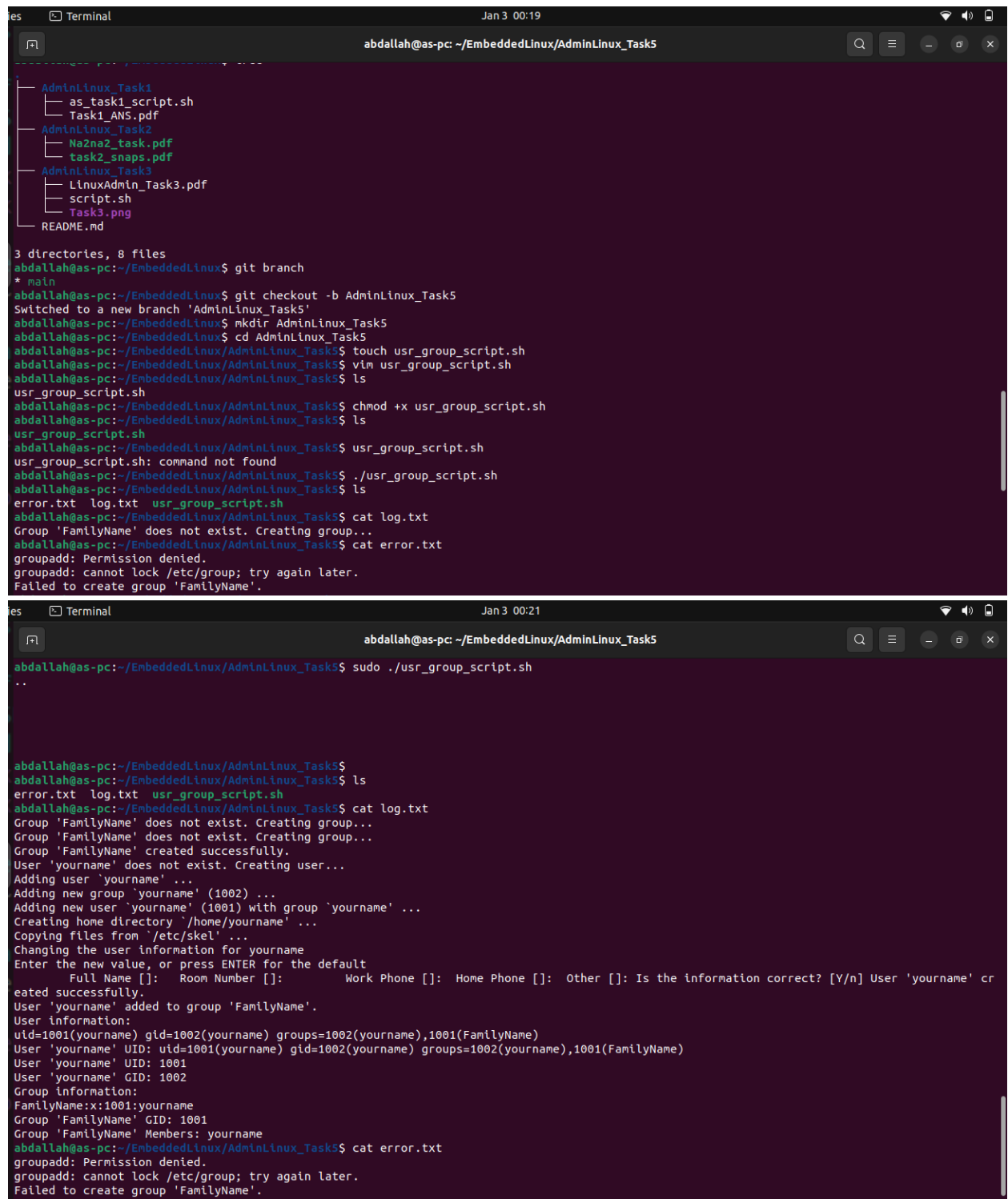


Section 1:

→ Adding the script & changing permission to be executable and running the script



```
es Terminal Jan 3 00:19
abdallah@as-pc: ~/EmbeddedLinux/AdminLinux_Task5

AdminLinux_Task1
├── as_task1_script.sh
├── Task1_ANS.pdf
├── AdminLinux_Task2
│   ├── Na2na2_task.pdf
│   └── task2_snaps.pdf
├── AdminLinux_Task3
│   ├── LinuxAdmin_Task3.pdf
│   ├── script.sh
│   └── Task3.png
└── README.md

3 directories, 8 files
abdallah@as-pc:~/EmbeddedLinux$ git branch
* main
abdallah@as-pc:~/EmbeddedLinux$ git checkout -b AdminLinux_Task5
Switched to a new branch 'AdminLinux_Task5'
abdallah@as-pc:~/EmbeddedLinux$ mkdir AdminLinux_Task5
abdallah@as-pc:~/EmbeddedLinux$ cd AdminLinux_Task5
abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ touch usr_group_script.sh
abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ vim usr_group_script.sh
abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ ls
usr_group_script.sh
abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ chmod +x usr_group_script.sh
abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ ls
usr_group_script.sh
abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ ./usr_group_script.sh
usr_group_script.sh: command not found
abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ ./usr_group_script.sh
abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ ls
error.txt log.txt usr_group_script.sh
abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ cat log.txt
Group 'FamilyName' does not exist. Creating group...
abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ cat error.txt
groupadd: Permission denied.
groupadd: cannot lock /etc/group; try again later.
Failed to create group 'FamilyName'.

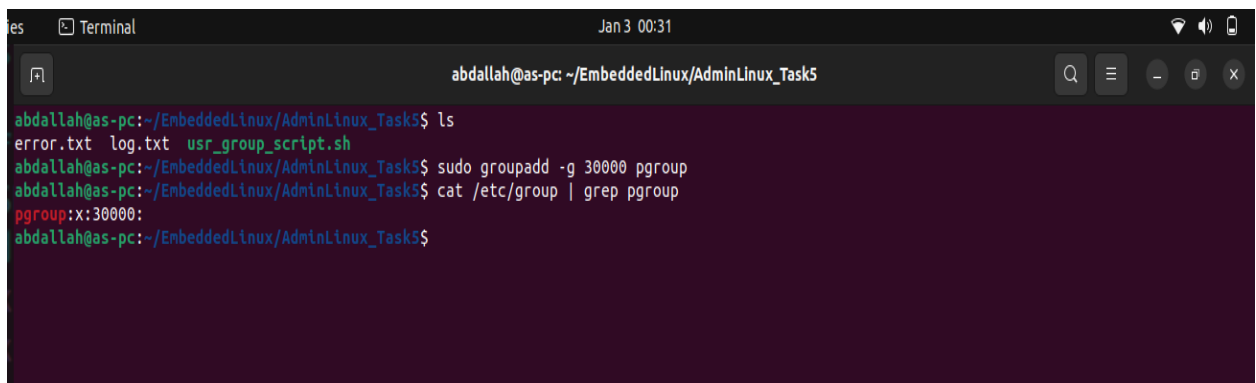
es Terminal Jan 3 00:21
abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5

abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ sudo ./usr_group_script.sh
..

abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$
abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ ls
error.txt log.txt usr_group_script.sh
abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ cat log.txt
Group 'FamilyName' does not exist. Creating group...
Group 'FamilyName' does not exist. Creating group...
Group 'FamilyName' created successfully.
User 'yourname' does not exist. Creating user...
Adding user 'yourname' ...
Adding new group 'yourname' (1002) ...
Adding new user 'yourname' (1001) with group 'yourname' ...
Creating home directory '/home/yourname' ...
Copying files from '/etc/skel' ...
Changing the user information for yourname
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] User 'yourname' cr
eated successfully.
User 'yourname' added to group 'FamilyName'.
User information:
uid=1001(yourname) gid=1002(yourname) groups=1002(yourname),1001(FamilyName)
User 'yourname' UID: uid=1001(yourname) gid=1002(yourname) groups=1002(yourname),1001(FamilyName)
User 'yourname' UID: 1001
User 'yourname' GID: 1002
Group information:
FamilyName:x:1001:yourname
Group 'FamilyName' GID: 1001
Group 'FamilyName' Members: yourname
abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ cat error.txt
groupadd: Permission denied.
groupadd: cannot lock /etc/group; try again later.
Failed to create group 'FamilyName'.
abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$
```

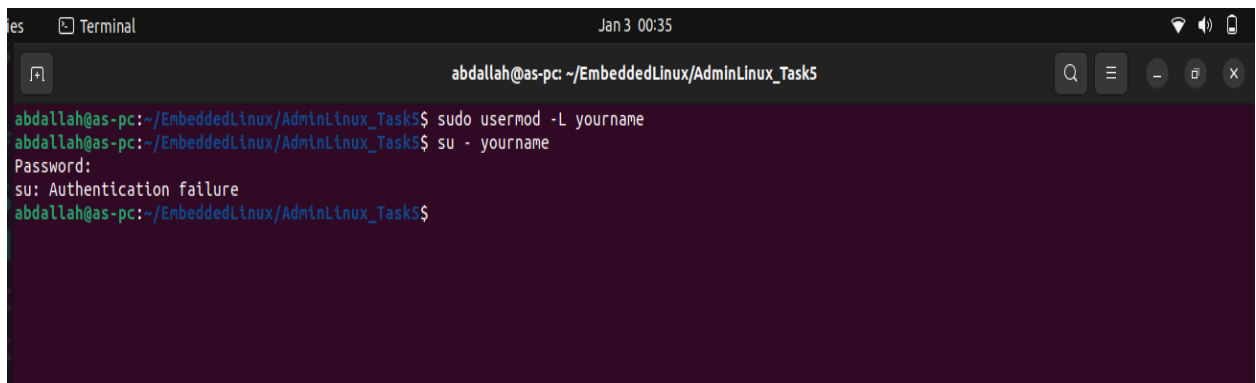
Section 2:

1. Creating a secondary group “pgroup” with id”30000”



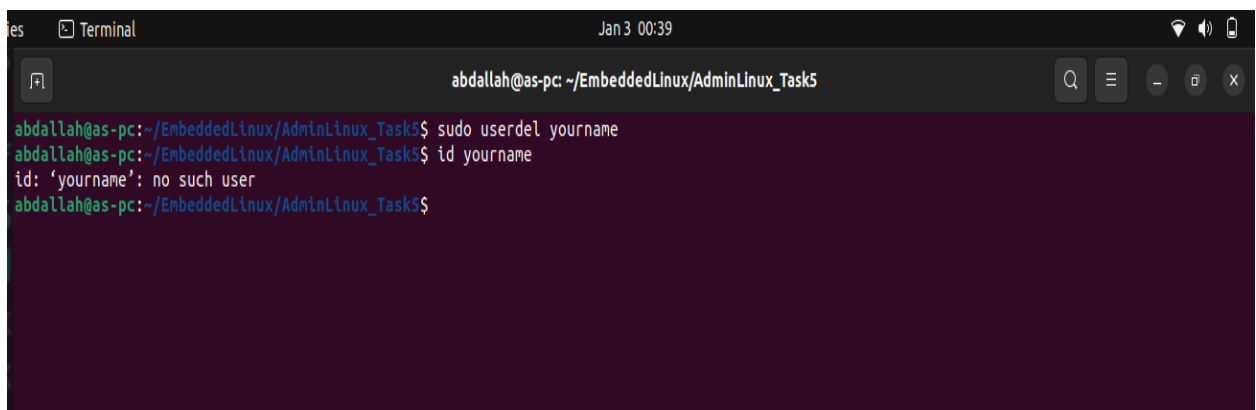
```
abdollah@as-pc: ~/EmbeddedLinux/AdminLinux_Task5
ls
error.txt log.txt usr_group_script.sh
abdollah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ sudo groupadd -g 30000 pgroup
abdollah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ cat /etc/group | grep pgroup
pgroup:x:30000:
abdollah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$
```

2. Locking the created user account from the user_group_srcipt



```
abdollah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ sudo usermod -L yourname
abdollah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ su - yourname
Password:
su: Authentication failure
abdollah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$
```

3. Deleting the created user account



```
abdollah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ sudo userdel yourname
abdollah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ id yourname
id: 'yourname': no such user
abdollah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$
```

4. Deleting the created group account

```
ies Terminal Jan 3 00:41
abdallah@as-pc: ~/EmbeddedLinux/AdminLinux_Task5
abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ sudo groupdel pgroup
abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ cat /etc/group | grep pgroup
abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$ getent group pgroup
abdallah@as-pc:~/EmbeddedLinux/AdminLinux_Task5$
```

5. Difference between “useradd” & “adduser” commands

useradd	adduser
It’s installed by default but it’s complicated as it needs too many flags and manual configuration for additional details like home directories or default shell.	Is a perl script that runs the useradd command, it automatically sets up a home directory, default shell, etc.

Example:

- **Using useradd**

sudo useradd -m username

sudo passwd username

- **Using adduser**

sudo adduser username