2-

```
nada@nada-Dell-GIS-SSIS: $ sudo adduser developer
Adding user 'developer' (1002) ...
Adding new group 'developer' (1001) with group 'developer' ...
Creating home directory '/home/developer' ...
Copying files from '/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for developer
Enter the new value, or press ENTER for the default
Full Name []: lot_developer
Room Number []: developer
Work Phone []:
Home Phone []:
Other []:

Is the information correct? [Y/n] y
nada@nada-Dell-GIS-SSIS: $ sudo usermod -aG lot_team developer
nada@nada-Dell-GIS-SSIS: $ groups developer
developer: developer iot_team
```

3-

```
nada@nada-Dell-G15-5515:-$ sudo chown -R developer:iot_team /home/nada/iot_logger
nada@nada-Dell-G15-5515:-$ ls -ld /home/nada/iot_logger
drwxrwxr-x 5 developer iot_team 4096 20:51 30 أمن /home/nada/iot_logger

nada@nada-Dell-G15-5515:-$ history -d $(history 1)
nada@nada-Dell-G15-5515:-$ ls -l /home/nada/iot_logger
total 12
drwxrwxr-x 2 developer iot_team 4096 21:51 31 أمن logs
drwxrwxr-x 2 developer iot_team 4096 22:02 31 أمن scripts
```

4-

```
nada@nada-Dell-G15-5515:-$ sudo chmod -R 770 /home/nada/lot_logger/logs
nada@nada-Dell-G15-5515:-$ ls -ld /home/nada/lot_logger/logs
drwxrwx--- 2 developer lot_team 4096 22:02 31 من /home/nada/lot_logger/logs
```

```
nadagnada-Dell-G15-5515:-$ su - developer

Password:

developer@nada-Dell-G15-5515:-$ cd /home/<pour-username>/iot_logger/logs
-bash: your-username: No such file or directory

developer@nada-Dell-G15-5515:-$ touch test.log  # should succeed since group has write

developer@nada-Dell-G15-5515:-$ cd /home/nada/lot_logger/logs

developer@nada-Dell-G15-5515:/home/nada/lot_logger/logs$ touch test.log

developer@nada-Dell-G15-5515:/home/nada/lot_logger/logs$ exit

logout

nada@nada-Dell-G15-5515:-$ sudo deluser developer

Removing user 'developer' ...

Warning: group 'developer' has no more members.

Done.

nada@nada-Dell-G15-5515:-$ sudo rm -r /home/developer

nada@nada-Dell-G15-5515:-$ sudo rm -r /home/developer

ls: cannot access '/home/developer': No such file or directory

nada@nada-Dell-G15-5515:-$ getent passwd | grep developer

nada@nada-Dell-G15-5515:-$ [
```