Complete Lab1 and Lab2

```
mohamed@dell:~$ ls /usr/bin/w*
/usr/bin/w              /usr/bin/whereis            /usr/bin/wireplumber
/usr/bin/wall           /usr/bin/which              /usr/bin/word-list-compress
/usr/bin/watch          /usr/bin/which.debianutils  /usr/bin/wpa_passphrase
/usr/bin/watchgnupg     /usr/bin/whiptail           /usr/bin/wpctl
/usr/bin/wc             /usr/bin/who                /usr/bin/wpexec
/usr/bin/wdctl          /usr/bin/whoami             /usr/bin/write
/usr/bin/wget           /usr/bin/whoopsie
/usr/bin/whatis         /usr/bin/whoopsie-preferences
```

Use this command > **man 1 passwd; man 5 passwd**

```
PASSWD(1)                       User Commands                      PASSWD(1)

NAME
       passwd - change user password

SYNOPSIS

       passwd [options] [LOGIN]

DESCRIPTION
       The passwd command changes passwords for user accounts. A normal user may only
       change the password for their own account, while the superuser may change the
       password for any account.  passwd also changes the account or associated
       password validity period.

   Password Changes
       The user is first prompted for their old password, if one is present. This
       password is then encrypted and compared against the stored password. The user
       has only one chance to enter the correct password. The superuser is permitted
       to bypass this step so that forgotten passwords may be changed.

       After the password has been entered, password aging information is checked to
       see if the user is permitted to change the password at this time. If not,
Manual page passwd(1) line 1/185 13% (press h for help or q to quit)
```

```
⊞                          mohamed@dell: ~              Q  ≡  ─  □  ×
PASSWD(5)                   File Formats and Configuration              PASSWD(5)

NAME
       passwd - the password file

DESCRIPTION
       /etc/passwd contains one line for each user account, with seven fields
       delimited by colons (":"). These fields are:

       •   login name

       •   optional encrypted password

       •   numerical user ID

       •   numerical group ID

       •   user name or comment field

       •   user home directory

       •   optional user command interpreter

 Manual page passwd(5) line 1 (press h for help or q to quit)
```

13. Display a list of all the commands that contain the keyword passwd in their man page

```
⊞                          mohamed@dell: ~              Q  ≡  ─  □  ×
mohamed@dell:~$ man -k passwd
chgpasswd (8)          - update group passwords in batch mode
chpasswd (8)           - update passwords in batch mode
fgetpwent_r (3)        - get passwd file entry reentrantly
getpwent_r (3)         - get passwd file entry reentrantly
gpasswd (1)            - administer /etc/group and /etc/gshadow
grub-mkpasswd-pbkdf2 (1) - generate hashed password for GRUB
ldappasswd (1)         - change the password of an LDAP entry
openssl-passwd (1ssl) - compute password hashes
pam_localuser (8)      - require users to be listed in /etc/passwd
passwd (1)             - change user password
passwd (1ssl)          - OpenSSL application commands
passwd (5)             - the password file
passwd2des (3)         - RFS password encryption
pwhistory_helper (8) - Helper binary that transfers password hashes from passwd or shadow to opasswd
update-passwd (8)      - safely update /etc/passwd, /etc/shadow and /etc/group
mohamed@dell:~$ |
```

1. Create a user account with the following attribute

username: islam

Fullname/comment: Islam Askar

Password: islam

```
mohamed@dell:~$ sudo useradd islam -c "Islam Askar"
[sudo] password for mohamed:
Sorry, try again.
[sudo] password for mohamed:
mohamed@dell:~$ sudo passwd islam
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
mohamed@dell:~$
```

2. Create a user account with the following attribute

Username: baduser

Full name/comment: Bad User

Password: baduser

```
mohamed@dell:~$ sudo useradd baduser -c "Bad User"
mohamed@dell:~$ sudo passwd baduser
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
mohamed@dell:~$
```

3-Create a supplementary (Secondary) group called pgroup with group ID of 30000

```
mohamed@dell:~$ sudo groupadd -g 30000 pgroup
mohamed@dell:~$ tail /etc/group
colord:x:120:
gdm:x:121:
nm-openvpn:x:122:
lxd:x:123:
gamemode:x:986:
gnome-initial-setup:x:985:
mohamed:x:1000:
islam:x:1001:
baduser:x:1002:
pgroup:x:30000:
mohamed@dell:~$
```

4-Create a supplementary group called badgroup

```
mohamed@dell:~$ sudo groupadd badgroup
mohamed@dell:~$ tail /etc/group
gdm:x:121:
nm-openvpn:x:122:
lxd:x:123:
gamemode:x:986:
gnome-initial-setup:x:985:
mohamed:x:1000:
islam:x:1001:
baduser:x:1002:
pgroup:x:30000:
badgroup:x:30001:
mohamed@dell:~$
```

5-Add islam user to the pgroup group as a supplementary group

```
mohamed@dell:~$ sudo usermod -aG pgroup islam
mohamed@dell:~$ tail /etc/group
gdm:x:121:
nm-openvpn:x:122:
lxd:x:123:
gamemode:x:986:
gnome-initial-setup:x:985:
mohamed:x:1000:
islam:x:1001:
baduser:x:1002:
pgroup:x:30000:islam
badgroup:x:30001:
mohamed@dell:~$
```

6-Modify the password of islam's account to password

```
mohamed@dell:~$ sudo passwd islam
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary
word
Retype new password:
passwd: password updated successfully
mohamed@dell:~$
```

7-Modify islam's account so the password expires after 30 days

```
mohamed@dell:~$ sudo chage -M 30 islam
mohamed@dell:~$ sudo chage -l islam
Last password change                                    : Mar 10, 2025
Password expires                                        : Apr 09, 2025
Password inactive                                       : never
Account expires                                         : never
Minimum number of days between password change          : 0
Maximum number of days between password change          : 30
Number of days of warning before password expires       : 7
mohamed@dell:~$
```

8-Lock bad user account so he can't log in

```
mohamed@dell:~$ sudo usermod -L baduser
mohamed@dell:~$ su - baduser
Password:
su: Authentication failure
mohamed@dell:~$
```

9-Delete bad user account

```
mohamed@dell:~$ sudo userdel -r baduser
userdel: baduser mail spool (/var/mail/baduser) not found
userdel: baduser home directory (/home/baduser) not found
mohamed@dell:~$ su - baduser
su: user baduser does not exist or the user entry does not contain all the requir
ed fields
```

10-Delete the supplementary group called badgroup

```
mohamed@dell:~$ sudo groupdel badgroup
mohamed@dell:~$ tail /etc/group
rtkit:x:119:
colord:x:120:
gdm:x:121:
nm-openvpn:x:122:
lxd:x:123:
gamemode:x:986:
gnome-initial-setup:x:985:
mohamed:x:1000:
islam:x:1001:
pgroup:x:30000:islam
mohamed@dell:~$
```