

The project using select option

```
[root@localhost mohamed]# ./project
1) Add User          6) Add Group          11) Enable User
2) Modify User       7) Modify Group       12) list password
3) Delete User       8) Delete Group      13) Change Password
4) detail user       9) List Groups       14) About
5) List Users        10) Disable User     15) Exit
Please select an option:
```

```
mohamed@localhost:/home/mohamed — nano project
GNU nano 5.6.1 project Modified
#!/bin/bash

show_menu() {
    PS3="Please select an option: "
    options=("Add User" "Modify User" "Delete User" "detail user" "List Users"
            "Modify Group" "Delete Group" "List Groups" "Disable User"
            "Enable User" "list password" "Change Password"
            "About" "Exit")
    select opt in "${options[@]}"
    do
        case $opt in
            "Add User")
                add_user
                ;;
            "Modify User")
                modify_user
                ;;
            "Delete User")
                delete_user
                ;;
        esac
    done
}

show_menu
```

^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^_ Go To Line

```
mohamed@localhost:/home/mohamed — nano project
GNU nano 5.6.1 project Modified

;;
"detail user")
    detail_user
;;
"List Users")
    list_users
;;
"Add Group")
    add_group
;;
"Modify Group")
    modify_group
;;
"Delete Group")
    delete_group
;;
"List Groups")
    list_groups
;;
"Disable User")

^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line
```

```
mohamed@localhost:/home/mohamed — nano project
GNU nano 5.6.1 project Modified

;;
"list password")
    list_password
;;
"Change Password")
    change_password
;;
"About")
    about
;;
"Exit")
    echo "Exiting..."
    break
;;
*)
    echo "Invalid option $REPLY"
;;
esac
done
}
```

Source code and run for the select option

```
add_user() {  
    read -p "Enter username to add: " username  
    if id "$username" &>/dev/null; then  
        echo "username is exist"  
    else  
        sudo useradd -m "$username"  
        echo "User '$username' added successfully."  
    fi  
}
```

```
[root@localhost mohamed]# ./project  
1) Add User          6) Add Group          11) Enable User  
2) Modify User       7) Modify Group       12) list password  
3) Delete User       8) Delete Group       13) Change Password  
4) detail user       9) List Groups        14) About  
5) List Users        10) Disable User      15) Exit  
Please select an option: 1  
Enter username to add: samy  
User 'samy' added successfully.  
Please select an option: 1  
Enter username to add: sultan  
username is exist  
Please select an option:
```

Source code for adduser and run

He checked if user exist or not

```
list_users() {  
    echo "Listing all users:"  
    cut -d: -f1 /etc/passwd  
}
```

```
geoclue
tss
cockpit-ws
cockpit-wsinstance
colord
sssd
setroubleshoot
pipewire
flatpak
clevis
gdm
gnome-initial-setup
sshd
chrony
dnsmasq
tcpdump
systemd-oom
mohamed
ashraf
ahmed
sultan
fahmy
samy
Please select an option: █
```

Source code for list user and run

List displayed new user after I added

```

modify_user() {
    read -p "Enter username to modify: " username

    if id "$username" &>/dev/null; then
        read -p "Enter username to newuser: " username1
        sudo usermod -l "$username1" "$username"
        echo "User '$username' modified successfully."
    else
        echo "Username is not exist"
    fi
}

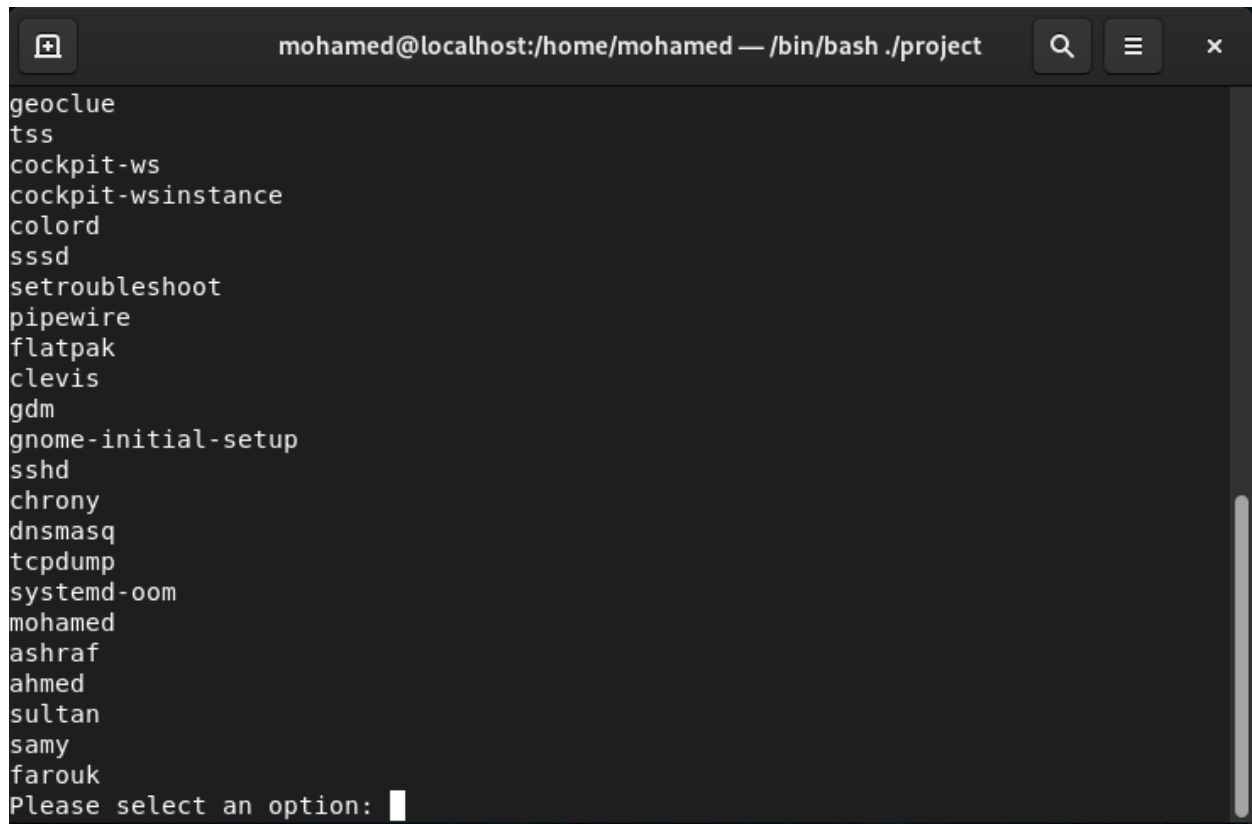
```

```

[root@localhost mohamed]# ./project
1) Add User          6) Add Group          11) Enable User
2) Modify User       7) Modify Group       12) list password
3) Delete User       8) Delete Group      13) Change Password
4) detail user       9) List Groups       14) About
5) List Users        10) Disable User     15) Exit
Please select an option: 2
Enter username to modify: fahmy
Enter username to newuser: farouk
User 'fahmy' modified successfully.
Please select an option: 2
Enter username to modify: fady
Username is not exist
Please select an option: █

```

Modify user he checked if user exist or not



A terminal window with a dark background and light gray text. The window title bar shows 'mohamed@localhost:/home/mohamed — /bin/bash ./project'. The terminal content lists various system services and users. At the bottom, it prompts 'Please select an option:' followed by a cursor.

```
mohamed@localhost:/home/mohamed — /bin/bash ./project
geoclue
tss
cockpit-ws
cockpit-wsinstance
colord
sssd
setroubleshoot
pipewire
flatpak
clevis
gdm
gnome-initial-setup
sshd
chrony
dnsmasq
tcpdump
systemd-oom
mohamed
ashraf
ahmed
sultan
samy
farouk
Please select an option: █
```

List user after the modify

```

delete_user() {
    read -p "Enter username to delete: " username
    if id "$username" &>/dev/null; then
        sudo userdel "$username"
        echo "User '$username' deleted successfully."
    else
        echo "Username is not exist"
    fi
}

```

```

mohamed@localhost:/home/mohamed — /bin/bash ./project

[root@localhost mohamed]# ./project
1) Add User          6) Add Group          11) Enable User
2) Modify User       7) Modify Group       12) list password
3) Delete User       8) Delete Group      13) Change Password
4) detail user       9) List Groups        14) About
5) List Users        10) Disable User     15) Exit
Please select an option: 3
Enter username to delete: ali
Username is not exist
Please select an option: 3
Enter username to delete: farouk
User 'farouk' deleted successfully.
Please select an option: 

```

Delete user

```
mohamed@localhost:/home/mohamed — /bin/bash ./project
libstoragemgmt
geoclue
tss
cockpit-ws
cockpit-wsinstance
colord
sssd
setroubleshoot
pipewire
flatpak
clevis
gdm
gnome-initial-setup
sshd
chrony
dnsmasq
tcpdump
systemd-oom
mohamed
ashraf
ahmed
sultan
samy
Please select an option:
```

List user after delete


```

detail_user() {
    read -p "Enter username to display details: " username
    if id "$username" &>/dev/null; then
        uid=$(id -u "$username")
        gid=$(id -g "$username")
        groups=$(id -Gn "$username")
        home_dir=$(getent passwd "$username" | cut -d: -f6)
        shell=$(getent passwd "$username" | cut -d: -f7)
        echo "User Details for '$username':"
        echo "UID: $uid"
        echo "GID: $gid"
        echo "Home Directory: $home_dir"
        echo "Groups: $groups"
        echo "shell: $shell "
    else
        echo "User '$username' does not exist."
    fi
}

```

```

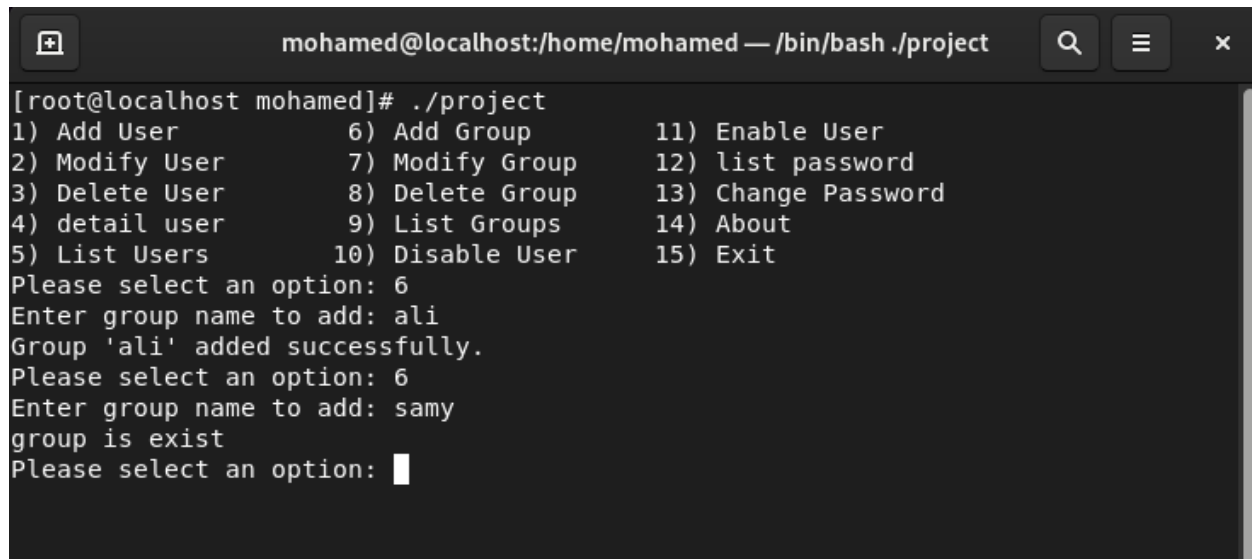
mohamed@localhost:/home/mohamed — /bin/bash ./project
[root@localhost mohamed]# ./project
1) Add User          6) Add Group          11) Enable User
2) Modify User       7) Modify Group       12) list password
3) Delete User       8) Delete Group       13) Change Password
4) detail user       9) List Groups        14) About
5) List Users        10) Disable User      15) Exit
Please select an option: 4
Enter username to display details: samy
User Details for 'samy':
UID: 1006
GID: 1006
Home Directory: /home/samy
Groups: samy
shell: /bin/bash
Please select an option: farouk
Invalid option farouk
Please select an option: 4
Enter username to display details: farouk
User 'farouk' does not exist.
Please select an option:

```

Source code and run for detail user

I checked about user Farouk exist or not

```
add_group() {  
    read -p "Enter group name to add: " groupname  
    if getent group "$groupname" > /dev/null 2>&1; then  
        echo "group is exist "  
    else  
        sudo groupadd "$groupname"  
        echo "Group '$groupname' added successfully."  
    fi  
}
```

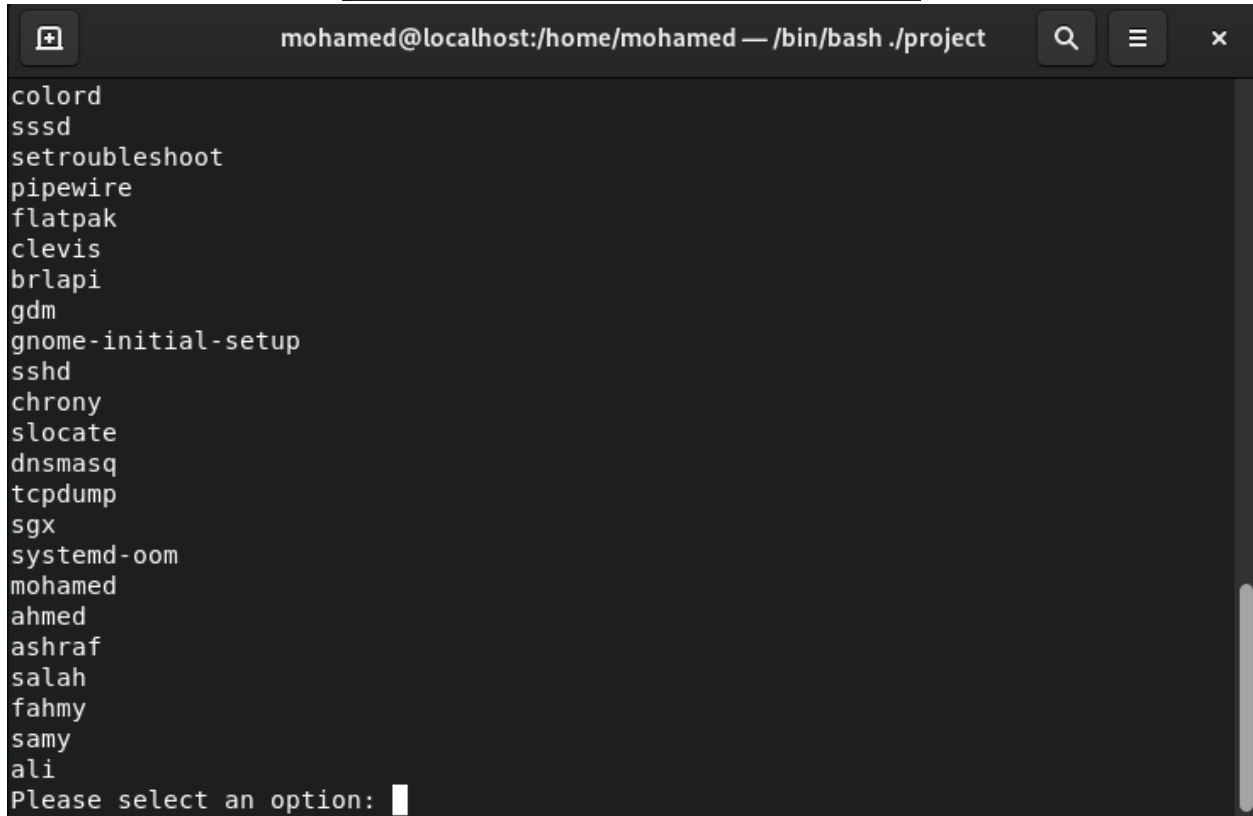


A terminal window titled "mohamed@localhost:/home/mohamed — /bin/bash ./project". The prompt is [root@localhost mohamed]#. The user runs ./project, which displays a menu of 15 options. The user selects option 6 (Add Group) and enters 'ali' as the group name. The script outputs "Group 'ali' added successfully.". The user selects option 6 again and enters 'samy'. The script outputs "group is exist". The user is then prompted to select an option again.

```
mohamed@localhost:/home/mohamed — /bin/bash ./project  
[root@localhost mohamed]# ./project  
1) Add User          6) Add Group          11) Enable User  
2) Modify User       7) Modify Group       12) list password  
3) Delete User       8) Delete Group      13) Change Password  
4) detail user       9) List Groups       14) About  
5) List Users        10) Disable User     15) Exit  
Please select an option: 6  
Enter group name to add: ali  
Group 'ali' added successfully.  
Please select an option: 6  
Enter group name to add: samy  
group is exist  
Please select an option: 
```

Groupadd source code and run

```
list_groups() {  
    echo "Listing all groups:"  
    cut -d: -f1 /etc/group  
}
```



A terminal window titled "mohamed@localhost:/home/mohamed — /bin/bash ./project". The window displays the output of the `list_groups()` function, which lists all system and user groups from the `/etc/group` file. The groups listed are: `colord`, `sssd`, `setroubleshoot`, `pipewire`, `flatpak`, `clevis`, `brlapi`, `gdm`, `gnome-initial-setup`, `sshd`, `chrony`, `slocate`, `dnsmasq`, `tcpdump`, `sgx`, `systemd-oom`, `mohamed`, `ahmed`, `ashraf`, `salah`, `fahmy`, `samy`, and `ali`. At the bottom, the prompt "Please select an option:" is followed by a cursor.

```
mohamed@localhost:/home/mohamed — /bin/bash ./project  
colord  
sssd  
setroubleshoot  
pipewire  
flatpak  
clevis  
brlapi  
gdm  
gnome-initial-setup  
sshd  
chrony  
slocate  
dnsmasq  
tcpdump  
sgx  
systemd-oom  
mohamed  
ahmed  
ashraf  
salah  
fahmy  
samy  
ali  
Please select an option: █
```

List group source code and run

I displayed groups after I added ali

```

modify_group() {
    read -p "Enter group name to modify: " groupname
    if getent group "$groupname" > /dev/null 2>&1; then
        read -p "Enter group name to newgroup:" groupname1
        sudo groupmod -n "$groupname1" "$groupname"
        echo "Group '$groupname' modified successfully."
    else
        echo "group not exist"
    fi
}

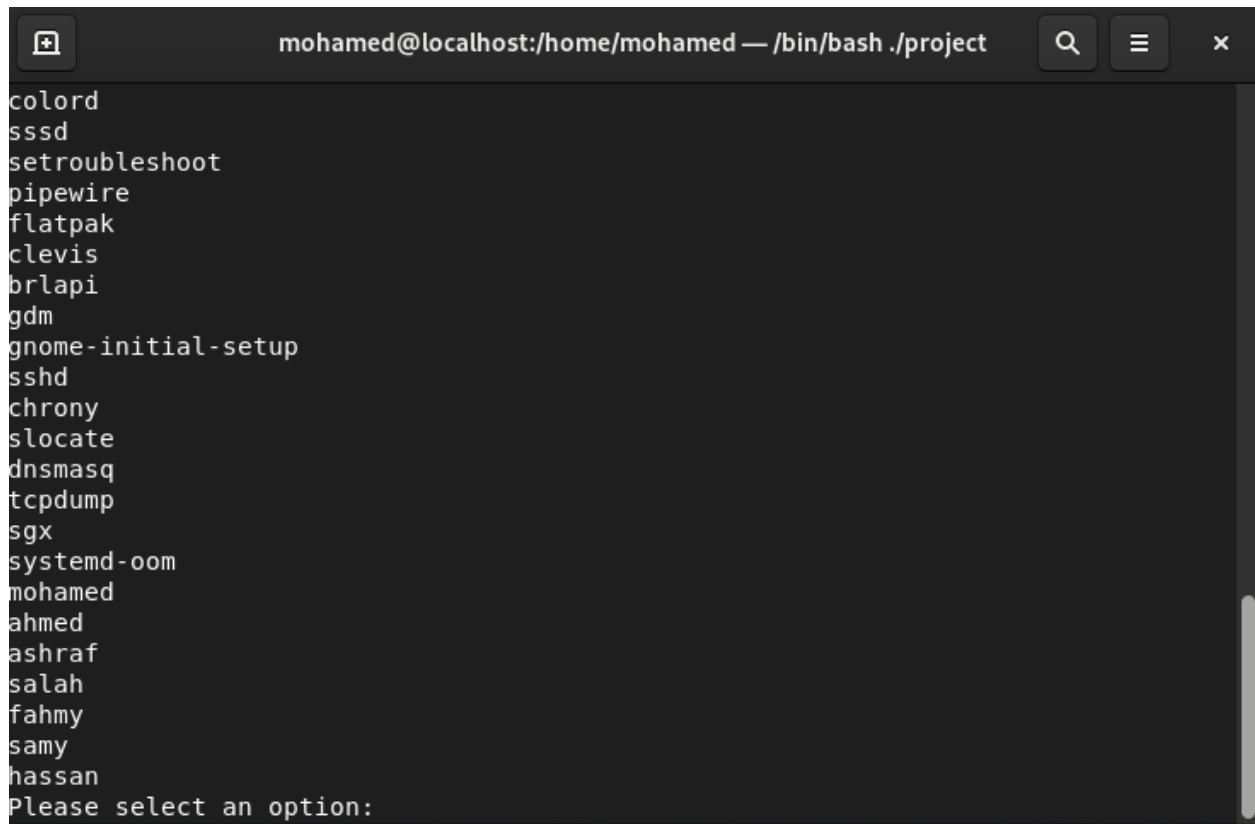
```

```

mohamed@localhost:/home/mohamed — /bin/bash ./project
[root@localhost mohamed]# nano project
[root@localhost mohamed]# ./project
1) Add User          6) Add Group          11) Enable User
2) Modify User       7) Modify Group       12) list password
3) Delete User       8) Delete Group       13) Change Password
4) detail user       9) List Groups        14) About
5) List Users        10) Disable User      15) Exit
Please select an option: 7
Enter group name to modify: ramy
group not exist
Please select an option: 7
Enter group name to modify: ali
Enter group name to newgroup:hassan
Group 'ali' modified successfully.
Please select an option: █

```

Modify group and run

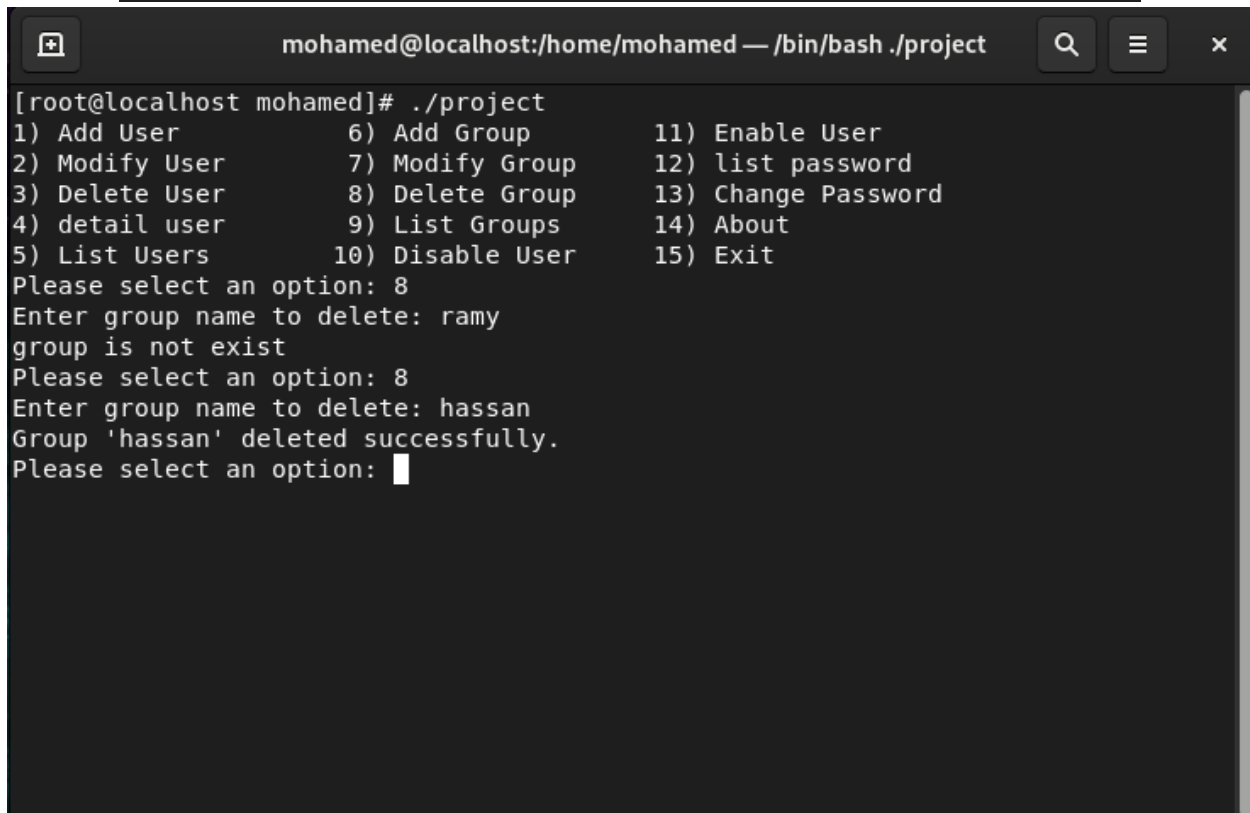


A terminal window with a dark background and light gray text. The window title bar shows the user 'mohamed' at 'localhost' in the directory '/home/mohamed', running a bash shell in a project directory. The terminal content lists various system services and users, followed by a prompt to select an option.

```
mohamed@localhost:/home/mohamed — /bin/bash ./project
colord
sssd
setroubleshoot
pipewire
flatpak
clevis
brlapi
gdm
gnome-initial-setup
sshd
chrony
slocate
dnsmasq
tcpdump
sgx
systemd-oom
mohamed
ahmed
ashraf
salah
fahmy
samy
hassan
Please select an option:
```

List group after modify

```
delete_group() {  
    read -p "Enter group name to delete: " groupname  
    if getent group "$groupname" > /dev/null 2>&1; then  
        sudo groupdel "$groupname"  
        echo "Group '$groupname' deleted successfully."  
    else  
        echo "group is not exist"  
    fi  
}
```



A terminal window titled "mohamed@localhost:/home/mohamed — /bin/bash ./project". The prompt is [root@localhost mohamed]#. The user runs ./project, which displays a menu of 15 options. The user selects option 8 (Delete Group) and enters "ramy". The script outputs "group is not exist". The user selects option 8 again and enters "hassan". The script outputs "Group 'hassan' deleted successfully.". The prompt then asks "Please select an option:" with a cursor.

```
mohamed@localhost:/home/mohamed — /bin/bash ./project  
[root@localhost mohamed]# ./project  
1) Add User          6) Add Group          11) Enable User  
2) Modify User       7) Modify Group       12) list password  
3) Delete User       8) Delete Group       13) Change Password  
4) detail user       9) List Groups        14) About  
5) List Users        10) Disable User      15) Exit  
Please select an option: 8  
Enter group name to delete: ramy  
group is not exist  
Please select an option: 8  
Enter group name to delete: hassan  
Group 'hassan' deleted successfully.  
Please select an option: █
```

Delete group

```
mohamed@localhost:/home/mohamed — /bin/bash ./project
cockpit-wsinstance
colord
sssd
setroubleshoot
pipewire
flatpak
clevis
brlapi
gdm
gnome-initial-setup
sshd
chrony
slocate
dnsmasq
tcpdump
sgx
systemd-oom
mohamed
ahmed
ashraf
salah
fahmy
samy
Please select an option:
```

List group after delete

```
change_password() {
    read -p "Enter username to change password: " username
    sudo passwd "$username"
    echo "Password changed for user '$username'."
}
```

```
mohamed@localhost:/home/mohamed — /bin/bash ./project
[root@localhost mohamed]# ./project
1) Add User          6) Add Group          11) Enable User
2) Modify User       7) Modify Group       12) list password
3) Delete User       8) Delete Group       13) Change Password
4) detail user       9) List Groups        14) About
5) List Users        10) Disable User      15) Exit
Please select an option: 13
Enter username to change password: samy
Changing password for user samy.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
Password changed for user 'samy'.
Please select an option: █
```

Change password source code and run

```

disable_user() {
    read -p "Enter username to disable: " username
    if id "$username" &>/dev/null; then
        sudo usermod -L "$username"
        echo "User '$username' disabled (locked) successfully."
    else
        echo "user is not exist"
    fi
}

```

```

mohamed@localhost:/home/mohamed — /bin/bash ./project
[root@localhost mohamed]# ./project
1) Add User          6) Add Group          11) Enable User
2) Modify User       7) Modify Group       12) list password
3) Delete User       8) Delete Group       13) Change Password
4) detail user       9) List Groups        14) About
5) List Users        10) Disable User      15) Exit
Please select an option: 10
Enter username to disable: samy
User 'samy' disabled (locked) successfully.
Please select an option:

```

Disable user

```

list_password() {
    echo "Listing all password:"
    cut -d: -f1,2,3 /etc/shadow
}

```

```

samy:!!$6$6qxKqf0mjkRG8Rs7$/5hxELxcBKZZN4Ebdw0Ysq4E8FMkYN.4E0prAIxnkD1DjqZTiFwUec
I5Y2w8sTnV8AkP0M0Vut/2pJwe91qD20:19950
Please select an option:

```

List /etc/shadow to display user status


```

enable_user() {
    read -p "Enter username to enable: " username
    if id "$username" &>/dev/null; then
        sudo usermod -U "$username"
        echo "User '$username' enabled (unlocked) successfully."
    else
        echo "user is not exist "
    fi
}

```

```

mohamed@localhost:/home/mohamed — /bin/bash ./project
[root@localhost mohamed]# ./project
1) Add User          6) Add Group          11) Enable User
2) Modify User       7) Modify Group       12) list password
3) Delete User       8) Delete Group       13) Change Password
4) detail user       9) List Groups        14) About
5) List Users        10) Disable User      15) Exit
Please select an option: 11
Enter username to enable: samy
User 'samy' enabled (unlocked) successfully.
Please select an option:

samy:$6$6qxKqf0mjkRG8Rs7$/5hxELxcBKZZN4Ebdw0Ysq4E8FMkYN.4E0prAIxnkD1DjqZTiFwUecI
5Y2w8sTnV8AkP0MOVut/2pJwe91qD20:19950

```

Enable user and list user status after enable

```

about() {
    echo "my name is mohamed abdelghafour in track system admin"
    echo "i created the project by using select in bash script "
}

show_menu

```

```

mohamed@localhost:/home/mohamed
[root@localhost mohamed]# ./project
1) Add User          6) Add Group          11) Enable User
2) Modify User       7) Modify Group       12) list password
3) Delete User       8) Delete Group       13) Change Password
4) detail user       9) List Groups        14) About
5) List Users        10) Disable User      15) Exit
Please select an option: 14
my name is mohamed abdelghafour in track system admin
i created the project by using select in bash script
Please select an option: 15
Exiting...
[root@localhost mohamed]#

```

About source code and run