



CECS 3234-80
Unix Operating Systems
SP - 22

Homework 5: Zenity GUI

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1 Description

In this homework the student had to run a bash script on a terminal using Zenity GUI features. The virtual firmware used was VirtualBox. In this problem the student had to recreate the homework 3 problem implementing zenity gui for displaying the menu and inputs.

Zenity is free software and a cross-platform program that allows the execution of GTK dialog boxes in command-line and shell scripts. Zenity allows easy creation of GUIs, though it has fewer features than more complex GUI-creation tools.

The Zenity BASH script was the following:

```
1 2 #!/bin/bash
3 clear;
4 while [[ $option != 5 ]]
5 do
6 clear;
7
8     menu=$(zenity --entry --title="Menu Principal" --text="\n1) Ver mis opciones \n2) Ver
mi lista de archivos \n3) Ver un calendario \n4) Crear un directorio \n5) Salir \n\n
Entre opcion: ")
9     case $menu in
10         '1')
11             clear | ps -ef |grep $(whoami) >temp ; cat temp |more
12             ;;
13         '2')
14             clear; cd ~ ; ls | more ; sleep 3
15             ;;
16         '3')
17             clear; cal; sleep 1
18             ;;
19         '4')
20             clear;
21             number=$(zenity --entry --title="Entre el nombre del directorio nuevo =" --
22             text="\n1) Entre nombre del directorio: ")
23             mkdir $number
24             zenity --info --title="Terminado" --text="Directorio $number creado"
25             ;;
26         '5')
27             zenity --info --title="Menu Principal" --text="Adios gracias por usar este
28             script"
29             exit 0
30             ;;
31         *)
32             clear;
33             echo -e "Opcion erronea trate de nuevo "
34             sleep 1
35             ;;
36     esac
37 done
```

Listing 1: ZENITY BASH SCRIPT: Menu HW3 with Zenity

Pictures of the script running below:

```

es  Terminal  abr 2 22:27
yael@yael-VirtualBox: ~
GNU nano 4.8 zenityhw.sh
#!/bin/bash

clear;
while [[ $option != 5 ]]
do
clear;

menu=$(zenity --entry --title="Menu Principal" --text="\n1) Ver mis op>
case $menu in
    '1')
        clear | ps -ef |grep $(whoami) >temp ; cat temp |more
        ;;

    '2')
        clear; cd ~ ; ls | more ; sleep 3
        ;;

    '3')
        clear; cal; sleep 1
        ;;

    '4')
        clear;
        number=$(zenity --entry --title="Entre el nombre del directori>
        mkdir $number

```

Zenity BASH Script in Ubuntu Terminal 1/2

```

        '4')
        clear;
        number=$(zenity --entry --title="Entre el nombre del directori>
        mkdir $number
        zenity --info --title="Terminado" --text="Directorio $number c>
        ;;

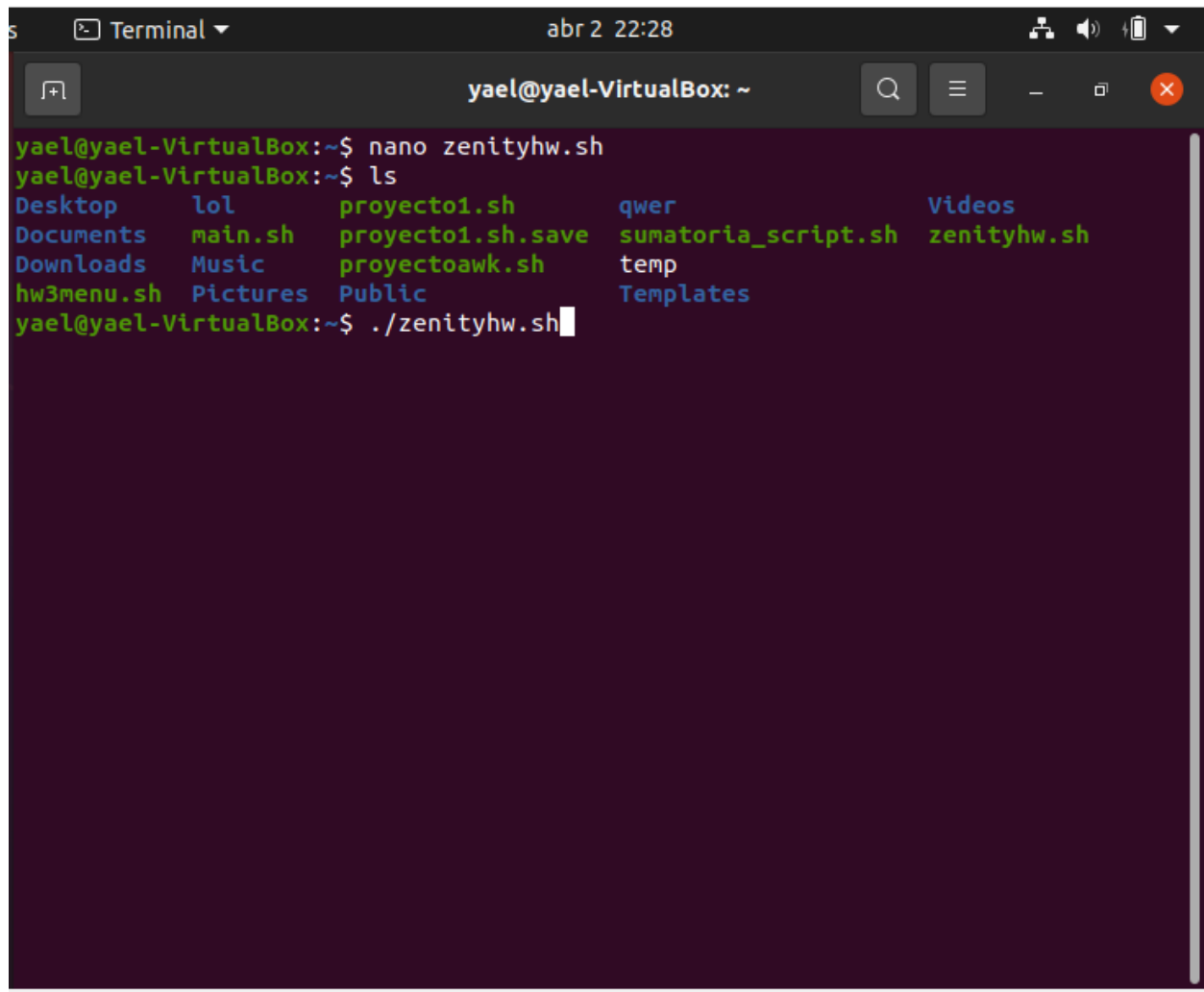
    '5')
        zenity --info --title="Menu Principal" --text="Bye Bye"
        exit 0
        ;;

    *)
        clear;
        echo -e "Opcion erronea trate de nuevo "
        sleep 1
        ;;

esac
done

```

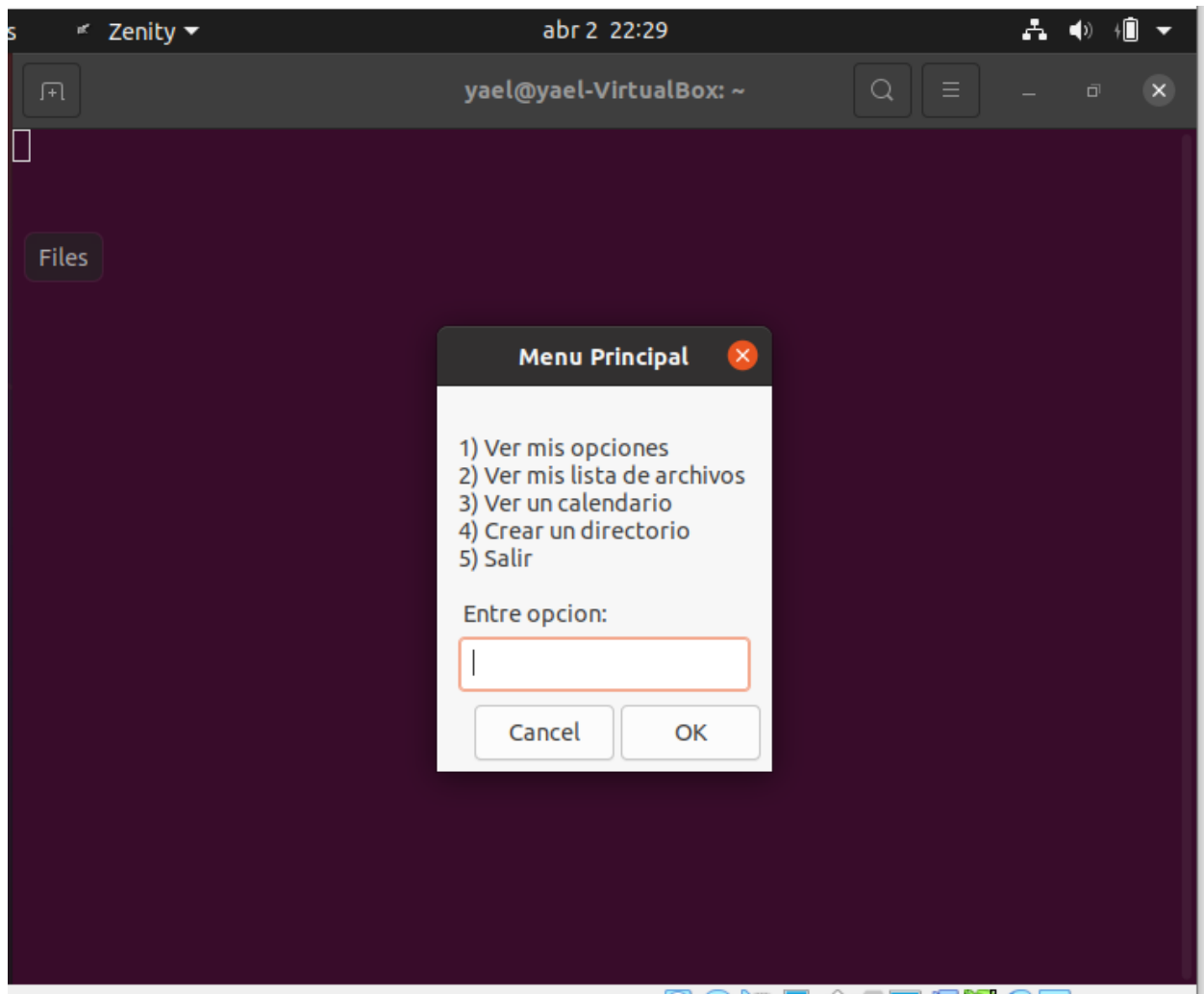
Zenity BASH Script in Ubuntu Terminal 2/2



The screenshot shows a terminal window titled "Terminal" with a timestamp of "abr 2 22:28". The user is logged in as "yael" on a system named "yael@yael-VirtualBox". The terminal shows the following commands and output:

```
yael@yael-VirtualBox:~$ nano zenityhw.sh
yael@yael-VirtualBox:~$ ls
Desktop      lol          proyecto1.sh  qwer          Videos
Documents    main.sh      proyecto1.sh.save  sumatoria_script.sh  zenityhw.sh
Downloads    Music        proyectoawk.sh  temp
hw3menu.sh   Pictures     Public         Templates
yael@yael-VirtualBox:~$ ./zenityhw.sh
```

List of files in Ubuntu Terminal



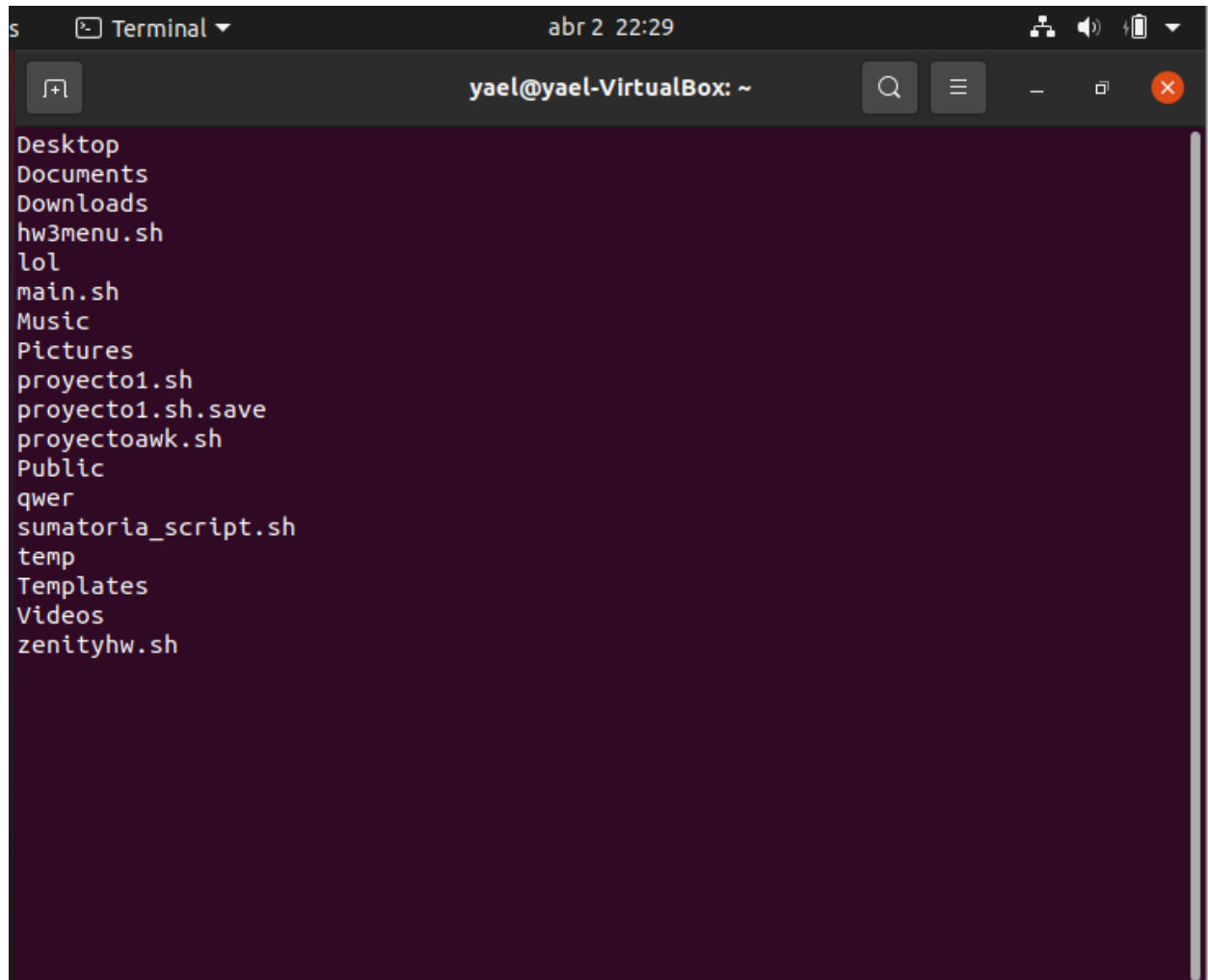
Execution of Script, Menu

```

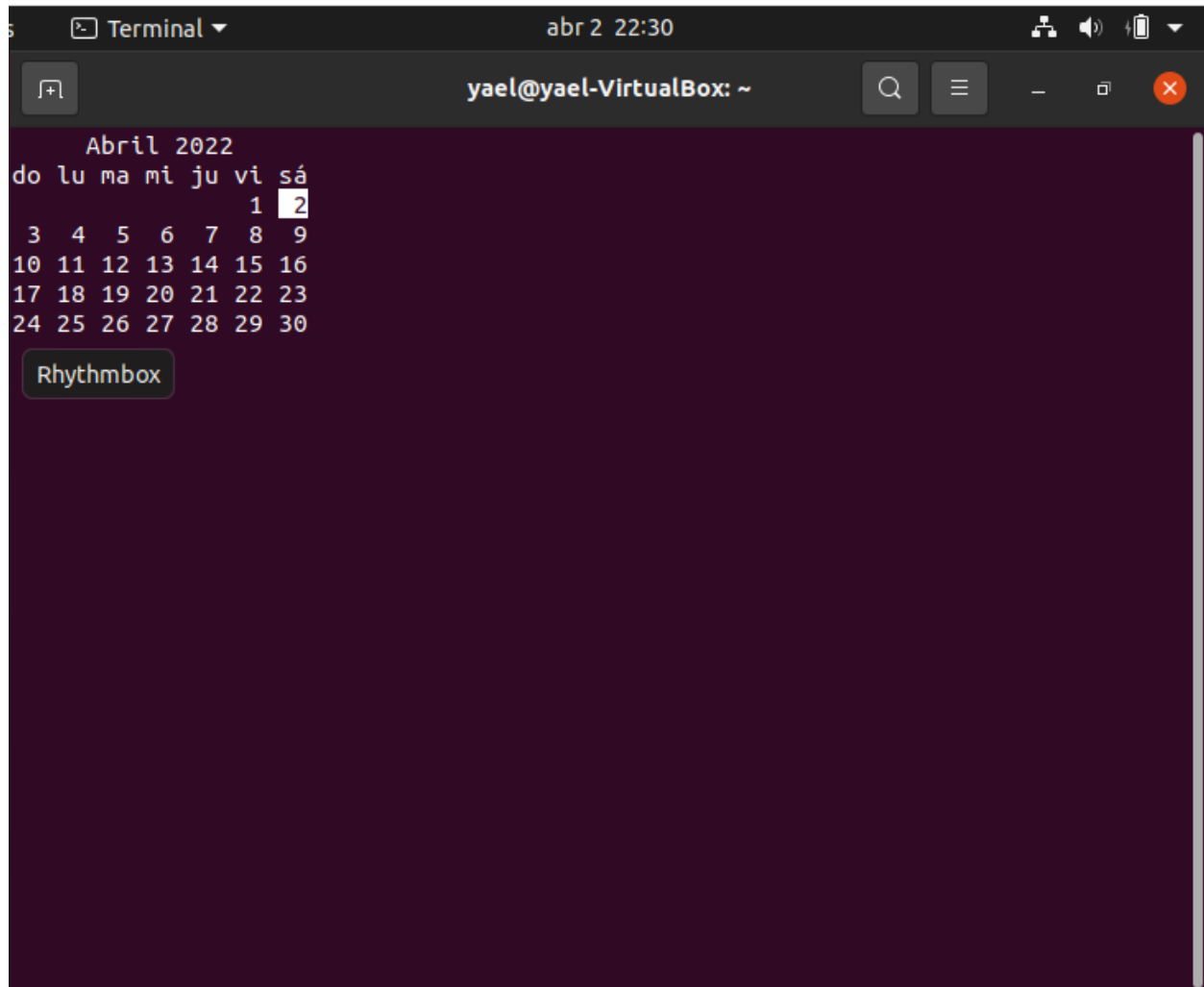
Terminal abr 2 22:29
yael@yael-VirtualBox: ~
avahi        641      1  0 20:14 ?      00:00:00 avahi-daemon: running [yael
-VirtualBox.local]
yael         1362      1  0 20:15 ?      00:00:00 /lib/systemd/systemd --user
yael         1363     1362  0 20:15 ?      00:00:00 (sd-pam)
yael         1368     1362  0 20:15 ?      00:00:02 /usr/bin/pulseaudio --daemon
nize=no --log-target=journal
yael         1370     1362  0 20:15 ?      00:00:00 /usr/libexec/tracker-miner-
fs
yael         1372     1362  0 20:15 ?      00:00:01 /usr/bin/dbus-daemon --sess
ion --address=systemd: --nofork --nopidfile --systemd-activation --syslog-only
yael         1377     1362  0 20:15 ?      00:00:00 /usr/libexec/gvfsd
yael         1382     1362  0 20:15 ?      00:00:00 /usr/libexec/gvfsd-fuse /ru
n/user/1000/gvfs -f -o big_writes
yael         1402      1  0 20:15 ?      00:00:00 /usr/bin/gnome-keyring-daem
on --daemonize --login
yael         1404     1362  0 20:15 ?      00:00:00 /usr/libexec/gvfs-udisks2-v
olume-monitor
yael         1412     1362  0 20:15 ?      00:00:00 /usr/libexec/gvfs-mtp-volum
e-monitor
yael         1416     1362  0 20:15 ?      00:00:00 /usr/libexec/gvfs-gphoto2-v
olume-monitor
yael         1420     1362  0 20:15 ?      00:00:02 /usr/libexec/gvfs-afc-volum
e-monitor
yael         1427     1362  0 20:15 ?      00:00:00 /usr/libexec/gvfs-goa-volum
e-monitor
yael         1431     1362  0 20:15 ?      00:00:00 /usr/libexec/goa-daemon
yael         1439     1362  0 20:15 ?      00:00:00 /usr/libexec/goa-identity-s
ervice
--More--

```

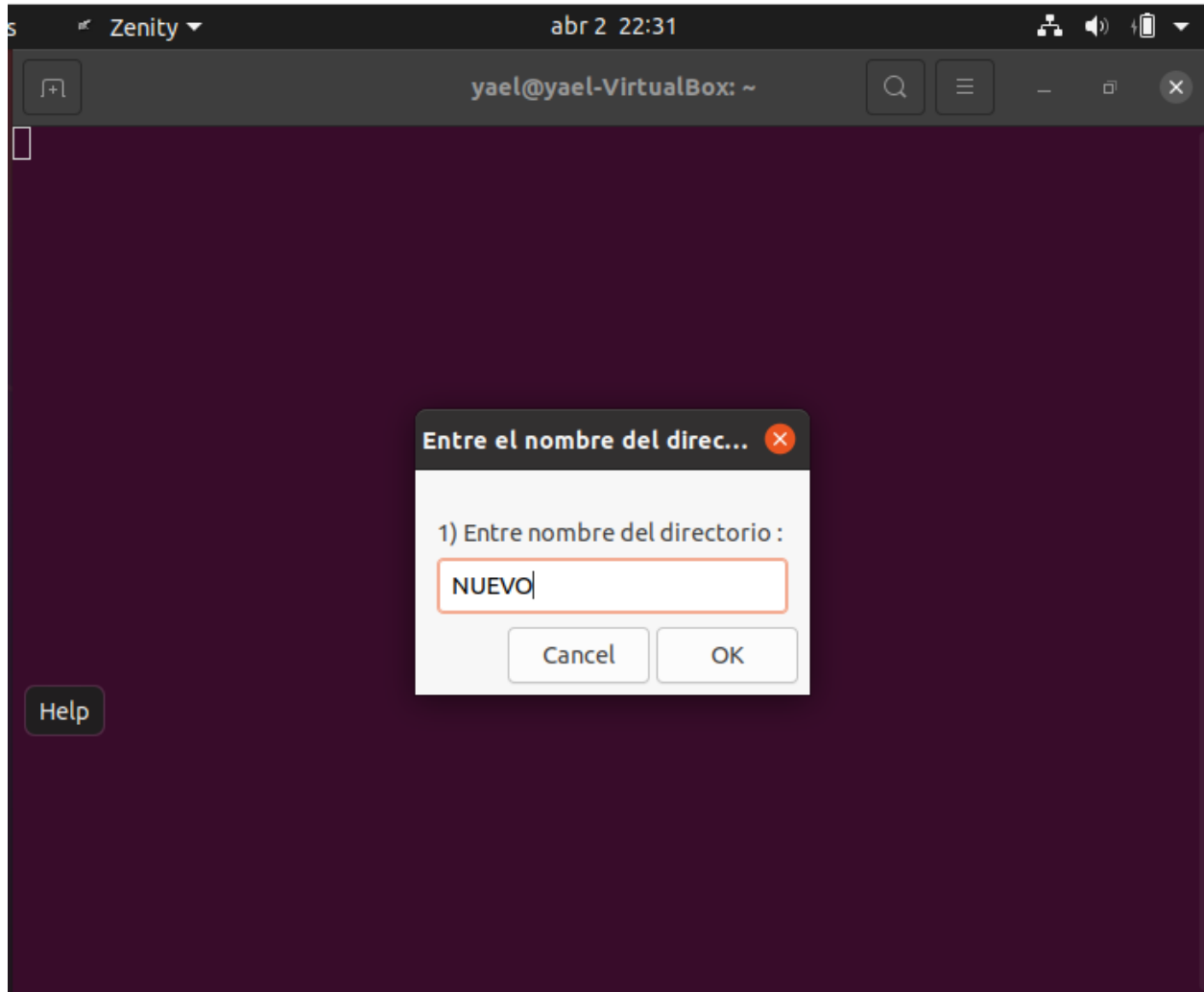
Execution of Menu Option 1



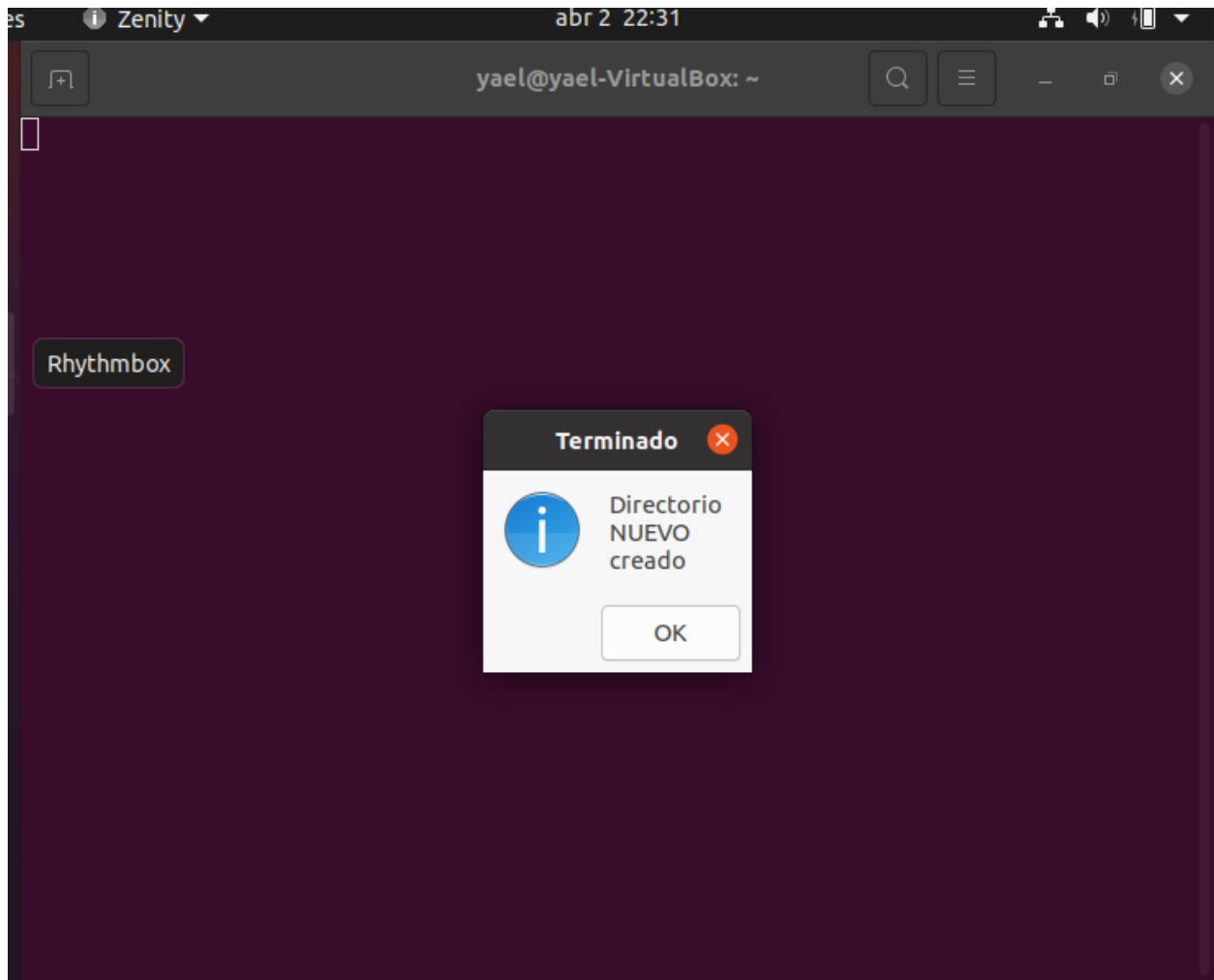
Execution of Menu Option 2



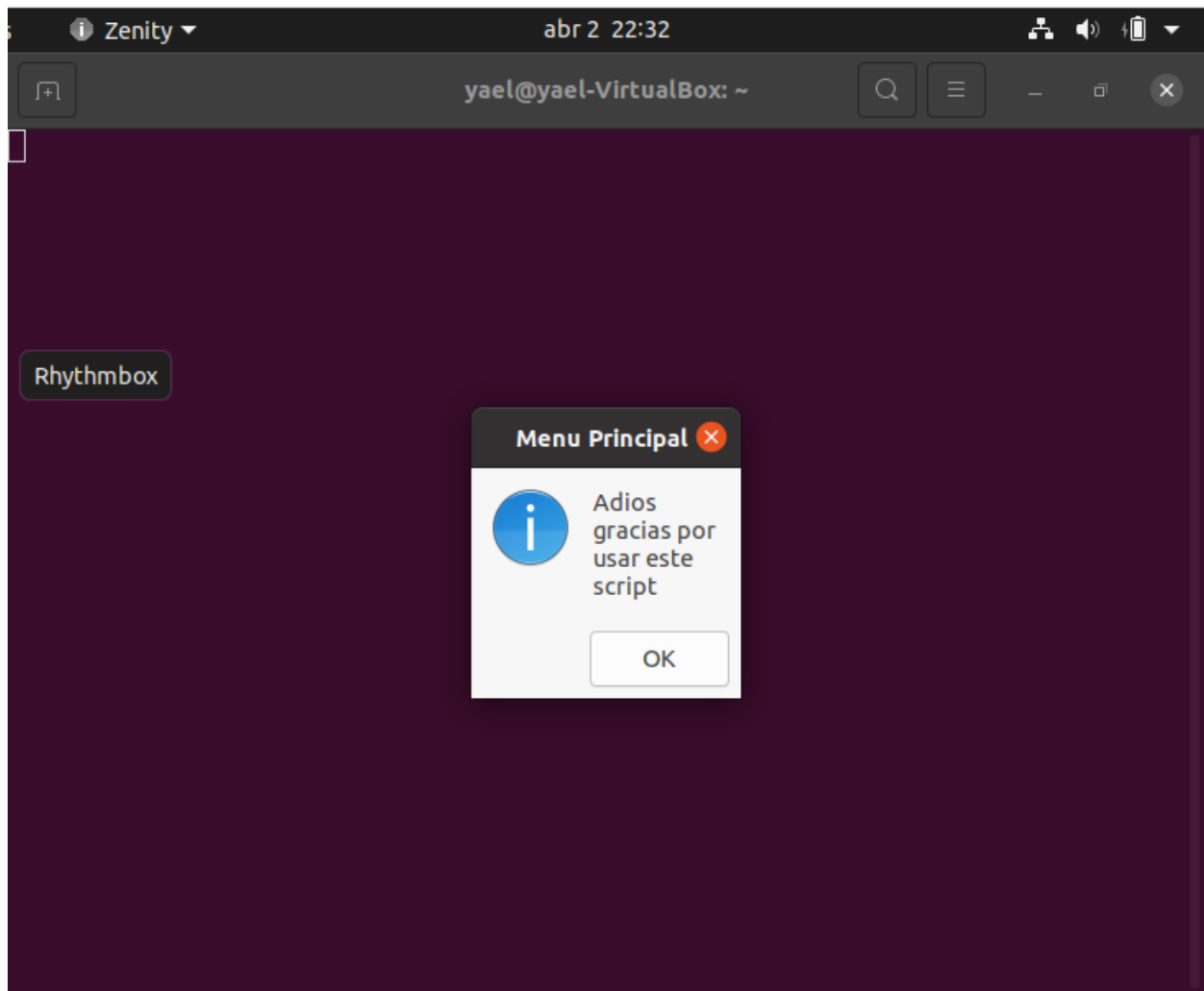
Execution of Menu Option 3



Execution of Menu Option 4



Execution of Menu Option 5



Exit Execution (5) message