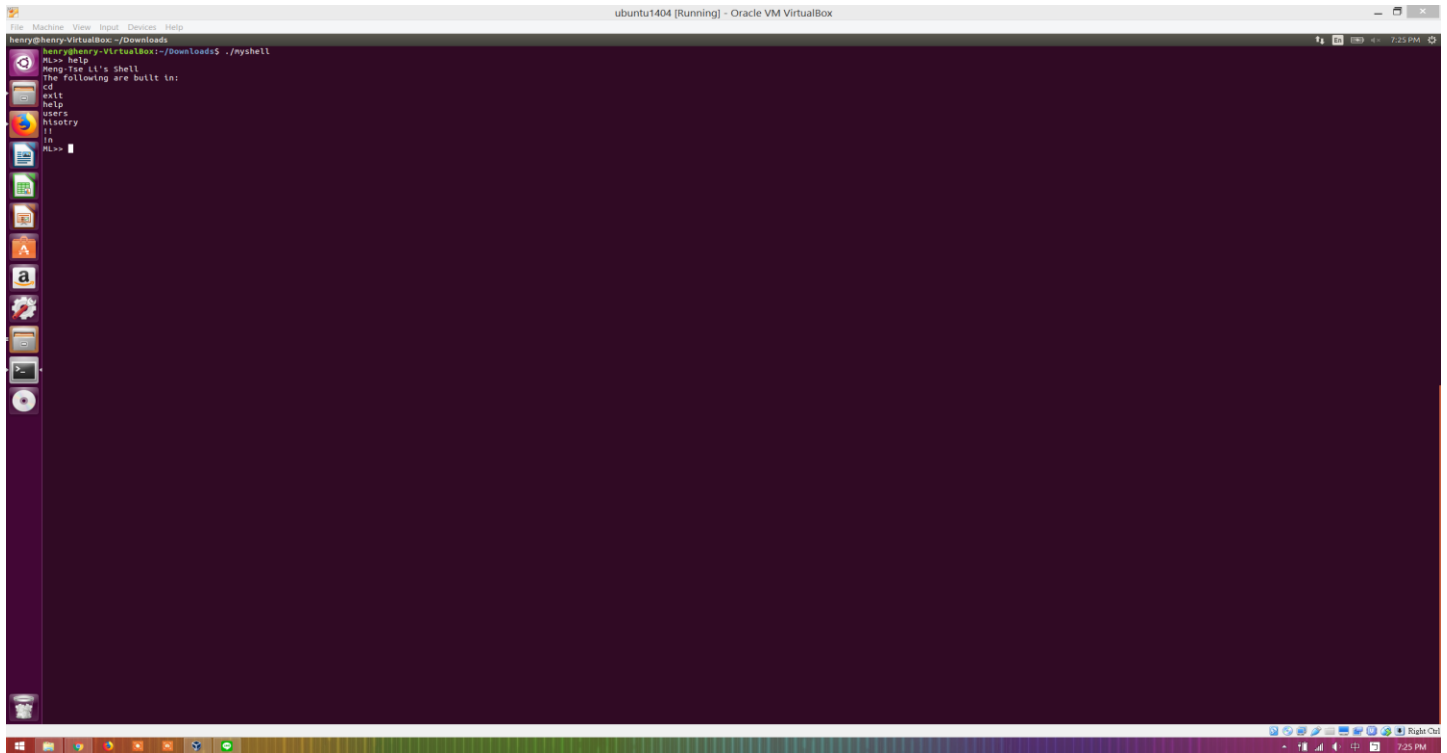


Meng-Tse Li

CS575 D1 Operating Systems (Fall 2017)

## Project 2

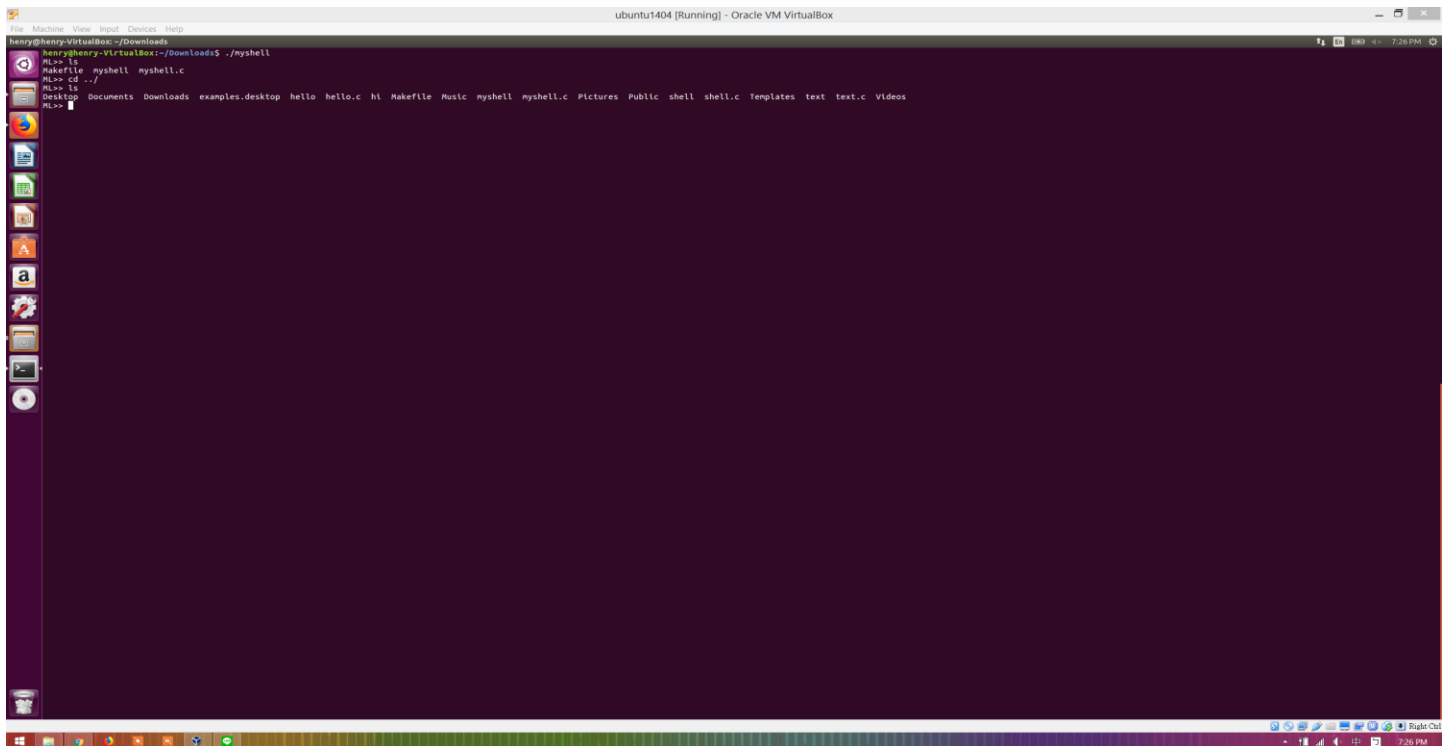
1. The first internal command I did was “help” to see what the internal commands are.



The screenshot shows a terminal window titled "henry@henry-VirtualBox: ~/Downloads" with the prompt "henry@henry-VirtualBox:~/Downloads\$ ./myshell". The user has entered the command "ML>> help". The output of the command is:

```
henry@henry-VirtualBox:~/Downloads$ ./myshell
ML>> help
Meng-Tse Li's shell
The following are built in:
cd
exit
help
users
history
!!
!n
ML>>
```

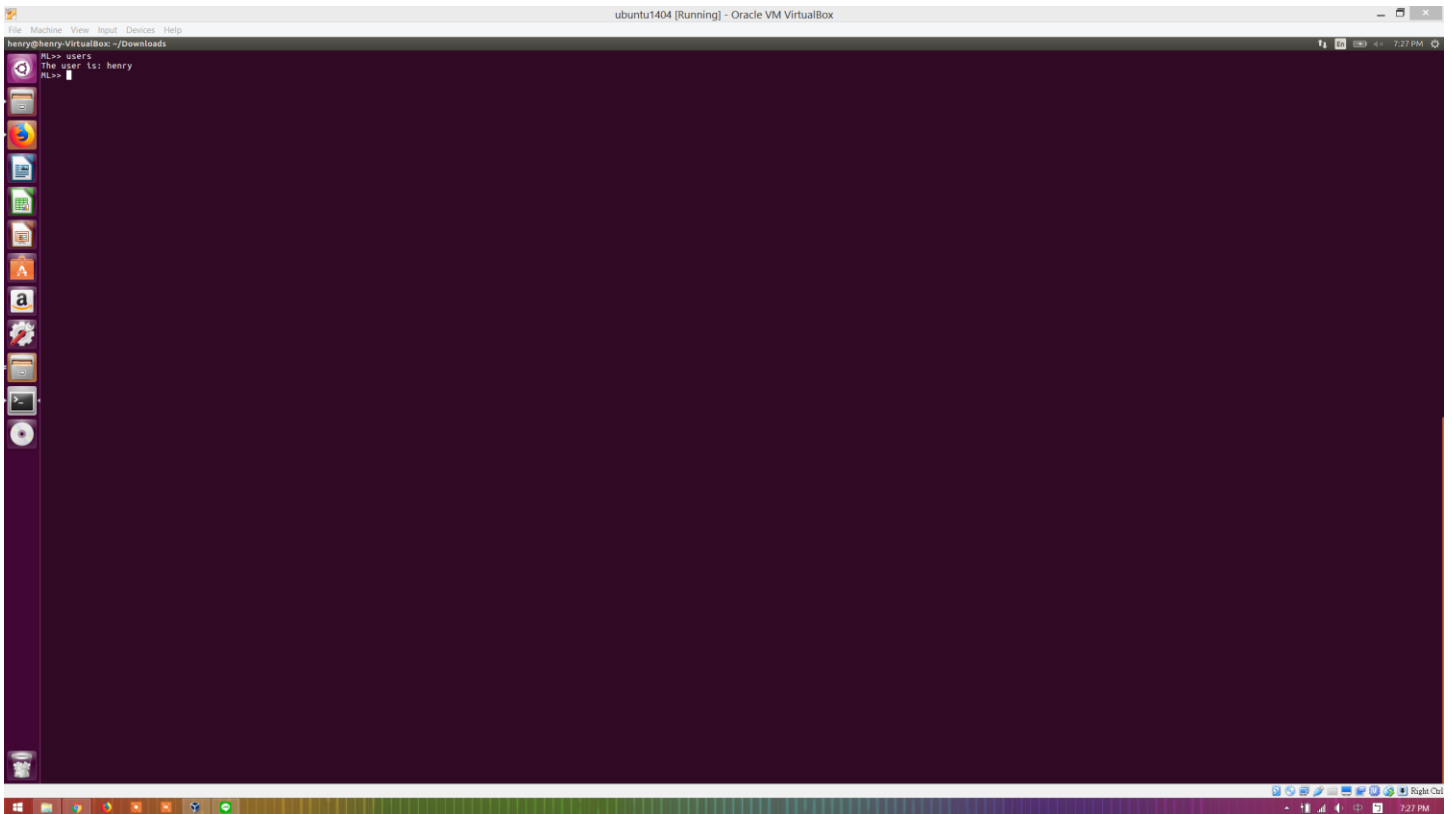
2. Then I do external command “ls” and internal “cd” to see and change my file directory.



The screenshot shows a terminal window titled "henry@henry-VirtualBox: ~/Downloads" with the prompt "henry@henry-VirtualBox:~/Downloads\$ ./myshell". The user has entered the command "ML>> ls". The output of the command is:

```
henry@henry-VirtualBox:~/Downloads$ ./myshell
ML>> ls
Makefile  myshell  myshell.c
ML>> cd ../
ML>> ls
Desktop  Documents  Downloads  examples.desktop  hello  hello.c  hi  Makefile  Music  myshell  myshell.c  Pictures  Public  shell  shell.c  Templates  text  text.c  Videos
ML>>
```

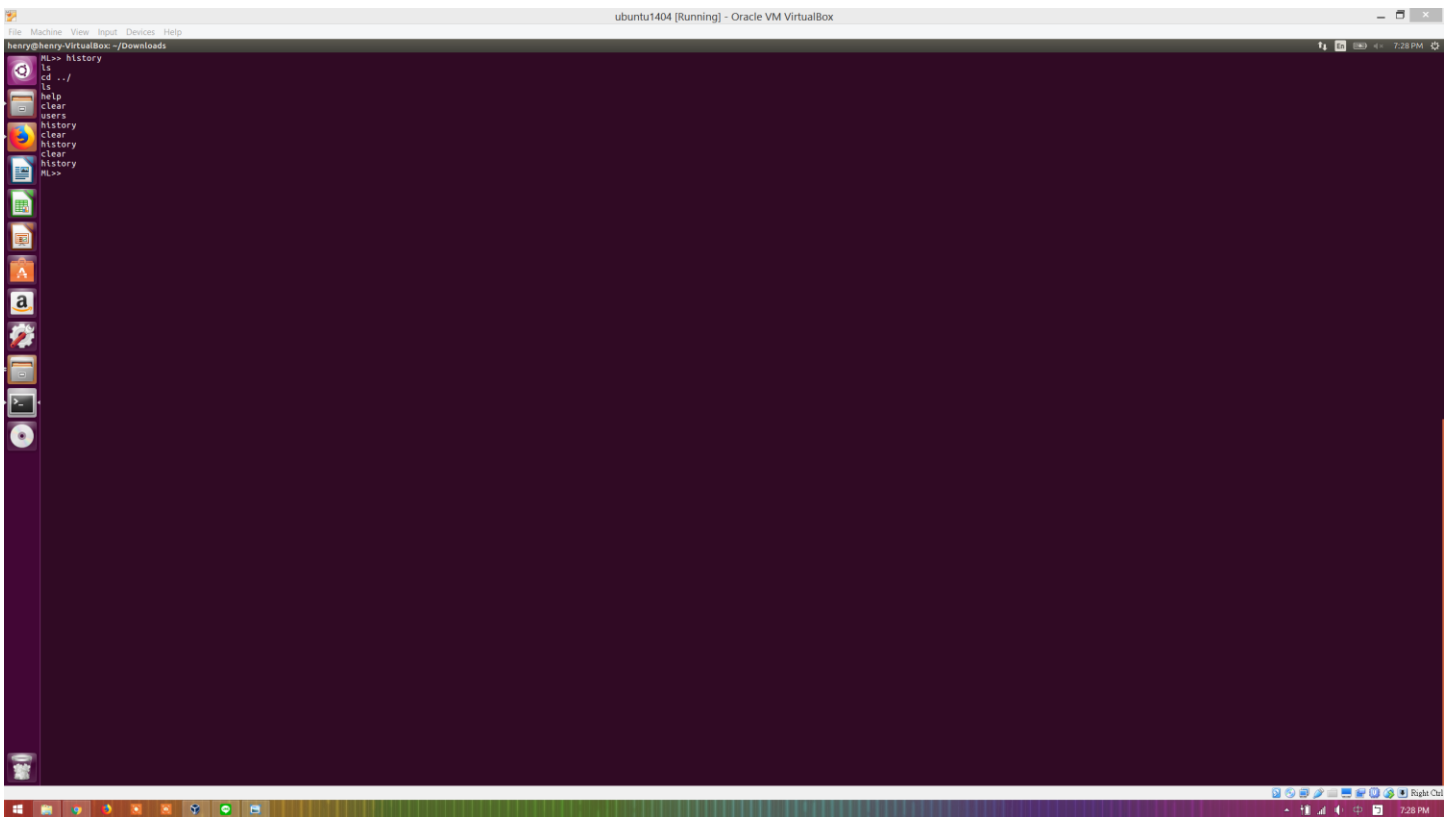
3. Then I use “users” command to see the user.



The screenshot shows a terminal window titled "henry@henry-VirtualBox: ~/Downloads" running on an "ubuntu1404 [Running] - Oracle VM VirtualBox". The terminal has a dark purple background. The prompt is "ML>". The command "users" has been entered, and the output is "The user is: henry". The prompt is now "ML>". On the left side of the terminal, there is a vertical dock with various application icons. At the bottom, there is a Windows taskbar with several icons and a system tray on the right showing the time as 7:27 PM.

```
henry@henry-VirtualBox: ~/Downloads
ML> users
The user is: henry
ML>
```

4. Then I do the “history” to see all the commands I did in the past.



The screenshot shows the same terminal window as before, but now the command "history" has been entered. The output lists the commands entered in the session: "ls", "cd ../", "ls", "help", "clear", "users", "history", "clear", "history", "clear", "history", and "ML>". The prompt is now "ML>". The dock and taskbar are the same as in the previous screenshot, with the time now showing as 7:28 PM.

```
henry@henry-VirtualBox: ~/Downloads
ML> history
ls
cd ../
ls
help
clear
users
history
clear
history
clear
history
ML>
```

5. Then I did the “!” command which executes the last command I had executed. In this case, the last command I did was “history”.

[illegible]

6. Then I did “n5” to execute the fifth command I did in the past. In this case is “help” command.

ubuntu1404 [Running] - Oracle VM VirtualBox

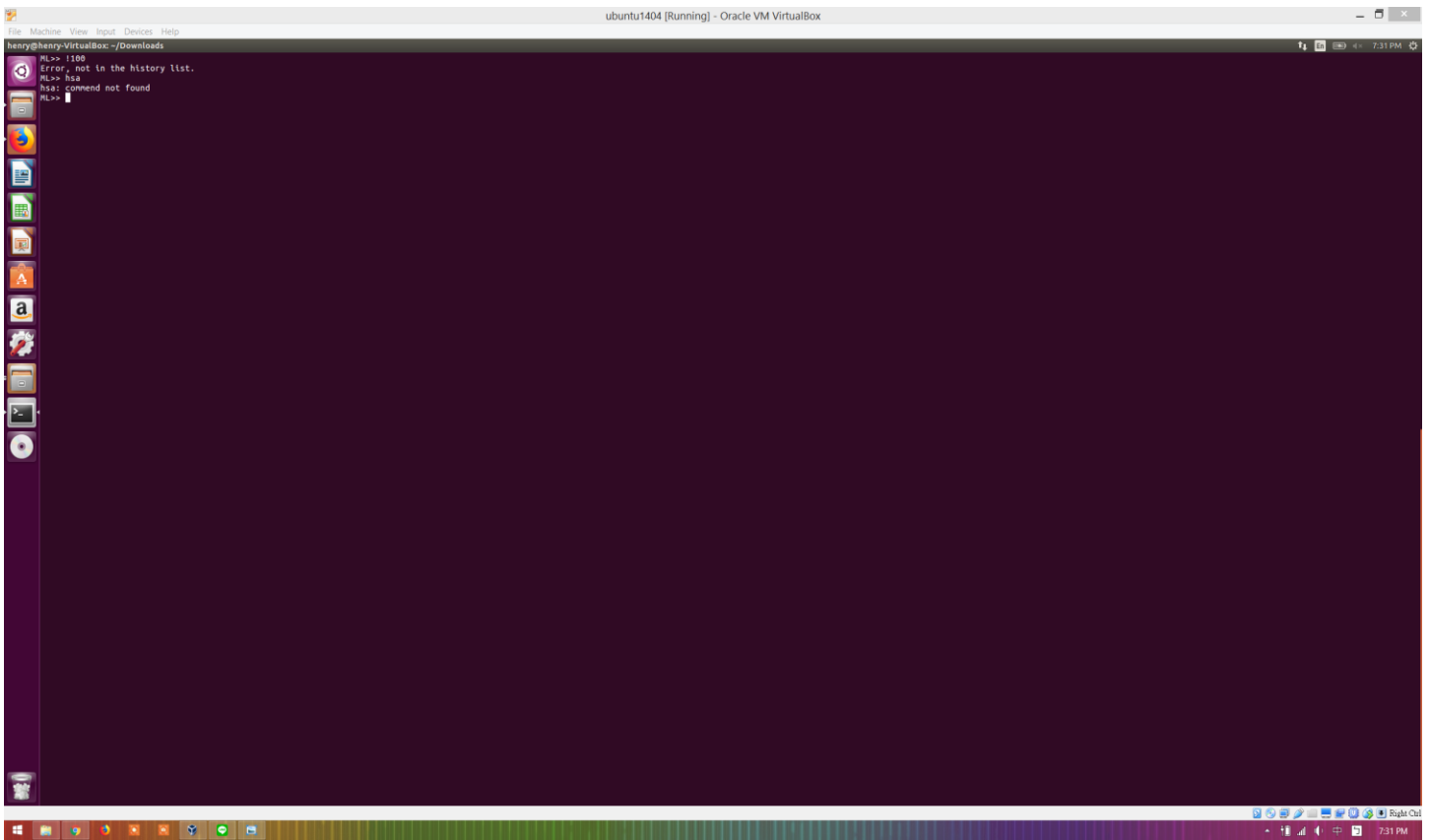
henry@henry-VirtualBox: ~/Downloads

```

ML>> ls
Meng, lisa, li's Shell
The Following are built in:
cd
exit
help
users
hisotry
!!
!a
ML>>

```

7. First I tested the “!100” command, and of course it gave me error message because I did not use 100 commands in the past yet. Then I just type random word “hsa” and it gave me error because it doesn’t belong to any commands.

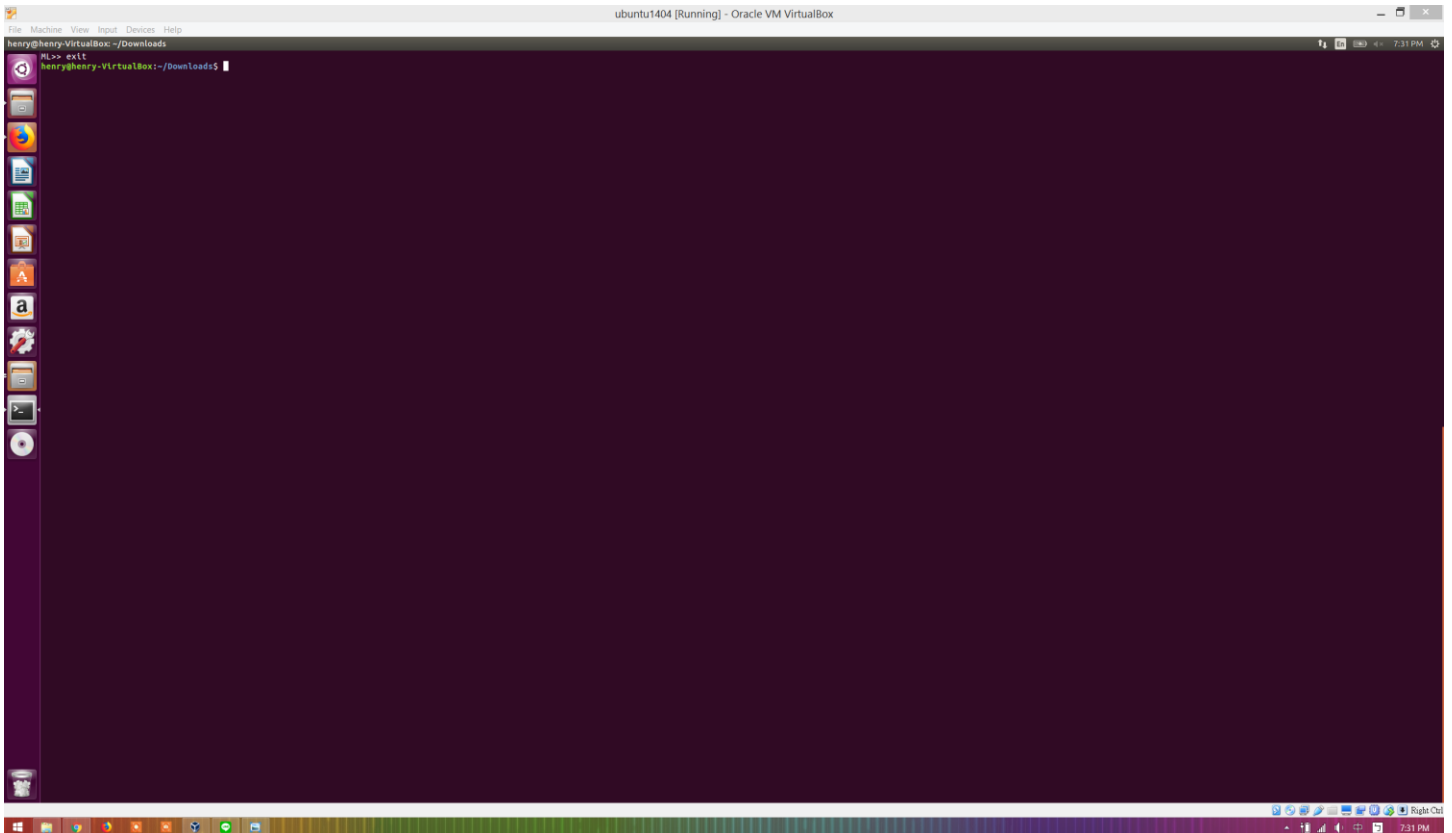


The screenshot shows a terminal window titled "henry@henry-VirtualBox: ~/Downloads" with a dark purple background. The terminal displays the following commands and their outputs:

```
henry@henry-VirtualBox:~/Downloads
ML>> !100
Error: not in the history list.
ML>> hsa
hsa: command not found
ML>>
```

The window includes a menu bar (File, Machine, View, Input, Devices, Help) and a taskbar at the bottom with various application icons and system status indicators.

8. Lastly, it is the “exit” command which out the program.



The screenshot shows the same terminal window as above, but now with the "exit" command entered. The terminal displays:

```
henry@henry-VirtualBox:~/Downloads
ML>> exit
henry@henry-VirtualBox:~/Downloads$
```

The prompt has changed from "ML>>" to "henry@henry-VirtualBox:~/Downloads\$", indicating the program has exited. The window's interface remains the same.