Faculty of Engineering and Technology
Electrical and Computer Engineering Department
ENCS3130 LINUX LABORATORY

Project 1

Generate Linux/Unix Command Manual

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Teacher assistant
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Section 3

BIRZEIT
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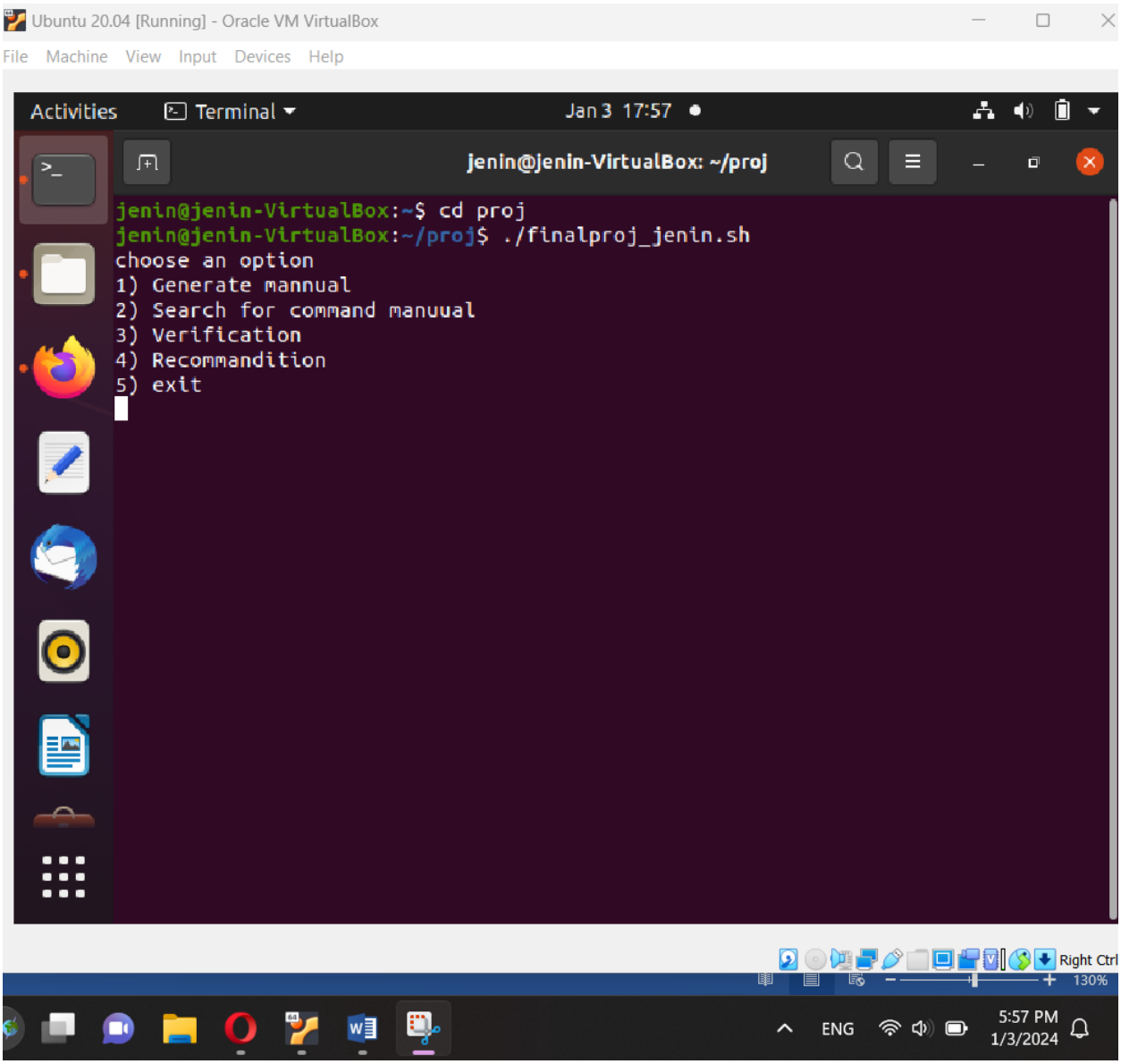
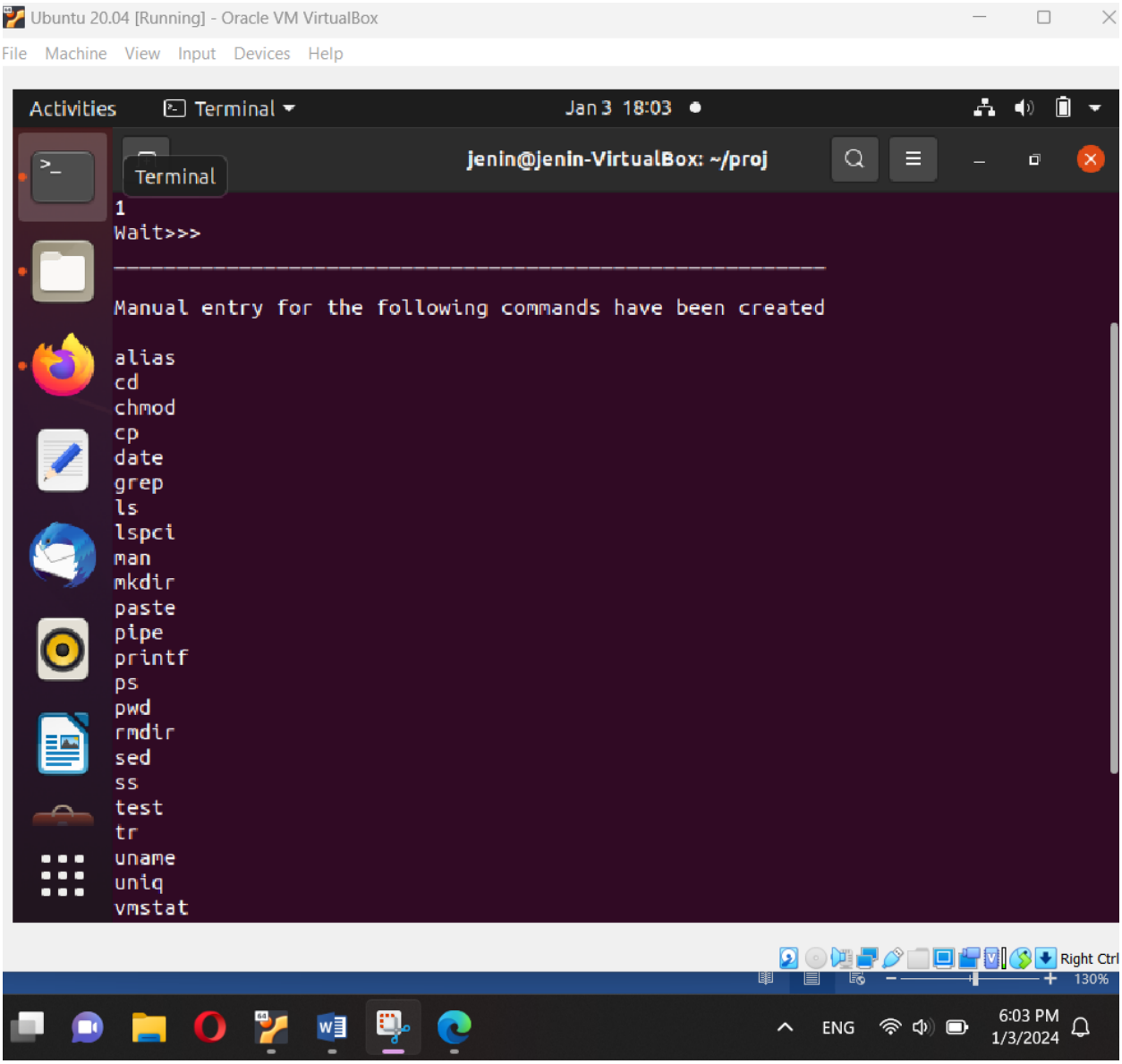
Screenshots:

Starting menu to choose between options.



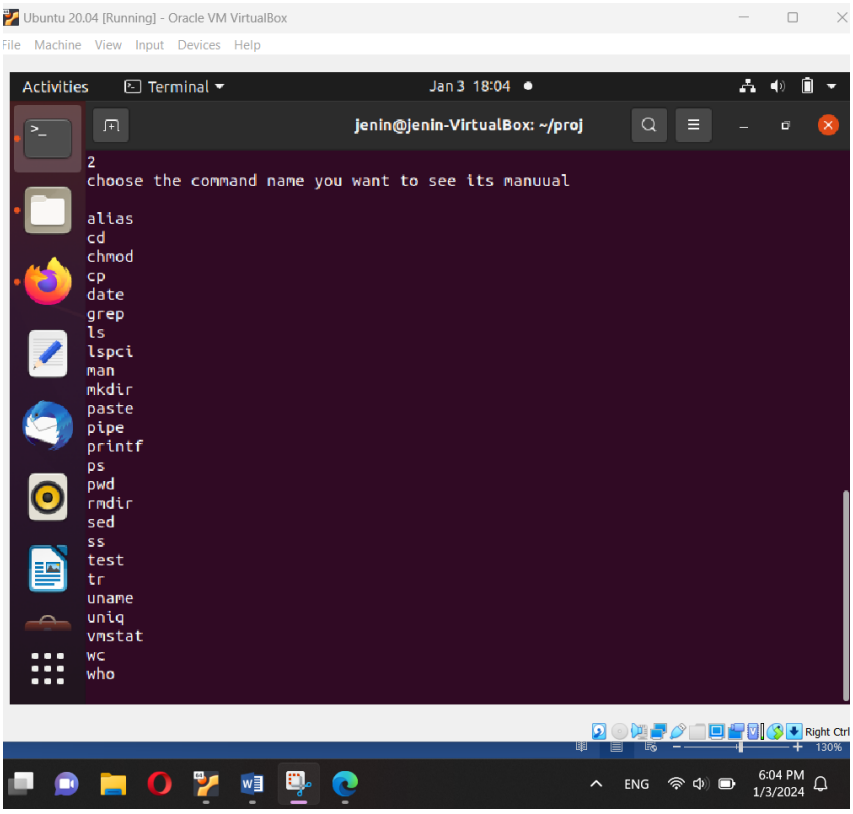
1- Generate manual

25 manual entry have been created.

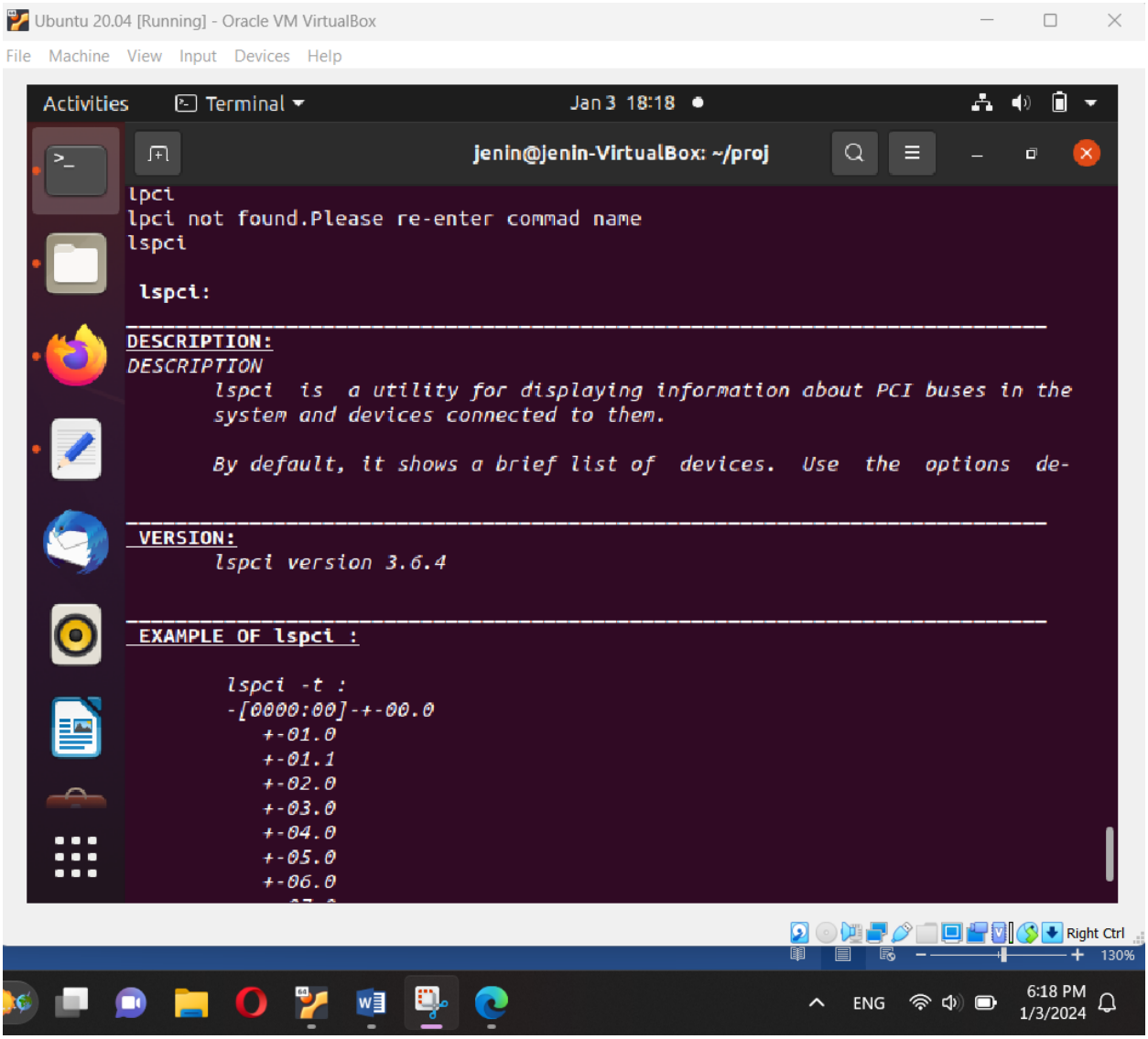


2- Search for specific manual

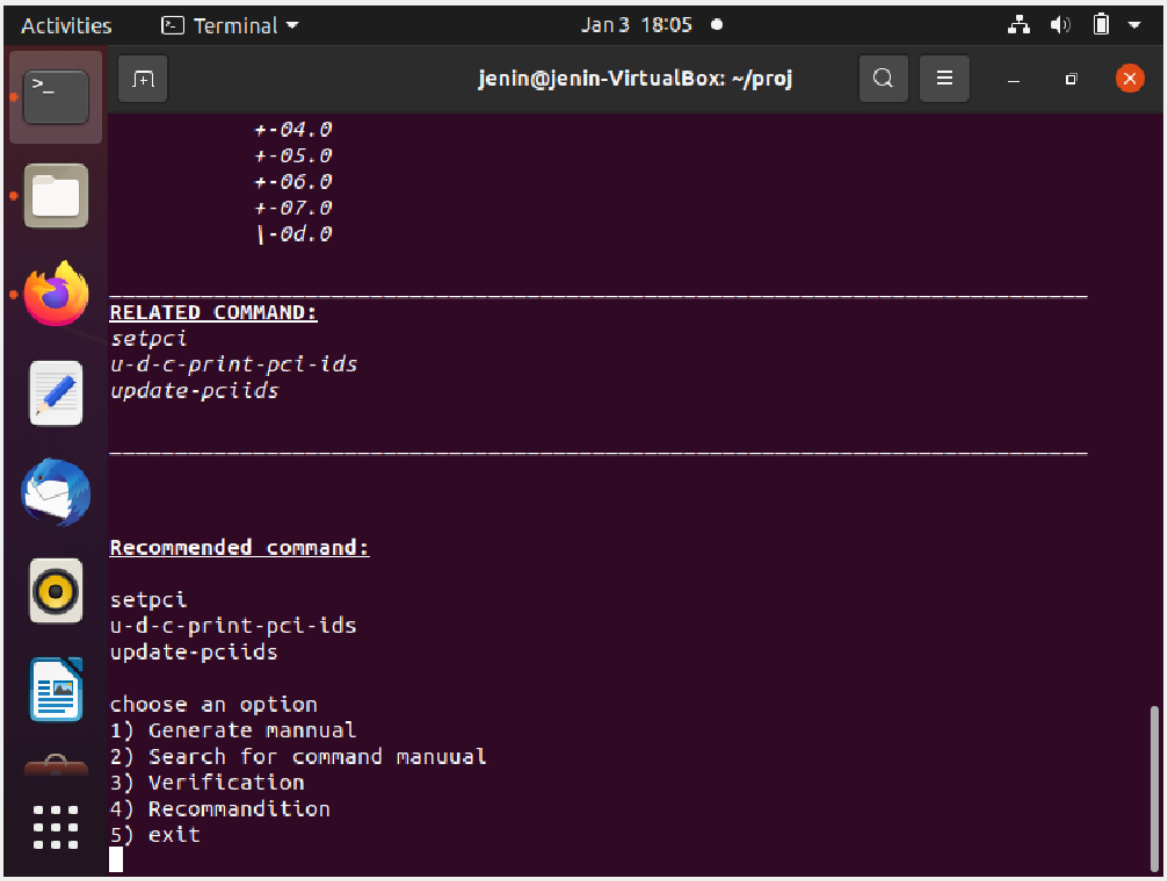
First the user choose the command he want to see, Then Command Recommendation is generated after.



1-lspci


Ubuntu 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Terminal
Jan 3 18:18
jenin@jenin-VirtualBox: ~/proj
lpci
lpci not found.Please re-enter commad name
lspci
lspci:
DESCRIPTION:
DESCRIPTION
lspci is a utility for displaying information about PCI buses in the system and devices connected to them.
By default, it shows a brief list of devices. Use the options de-
VERSION:
lspci version 3.6.4
EXAMPLE OF lspci :
lspci -t :
-[0000:00]-+-00.0
+-01.0
+-01.1
+-02.0
+-03.0
+-04.0
+-05.0
+-06.0
Right Ctrl
130%
ENG
6:18 PM
1/3/2024

File Machine View Input Devices Help



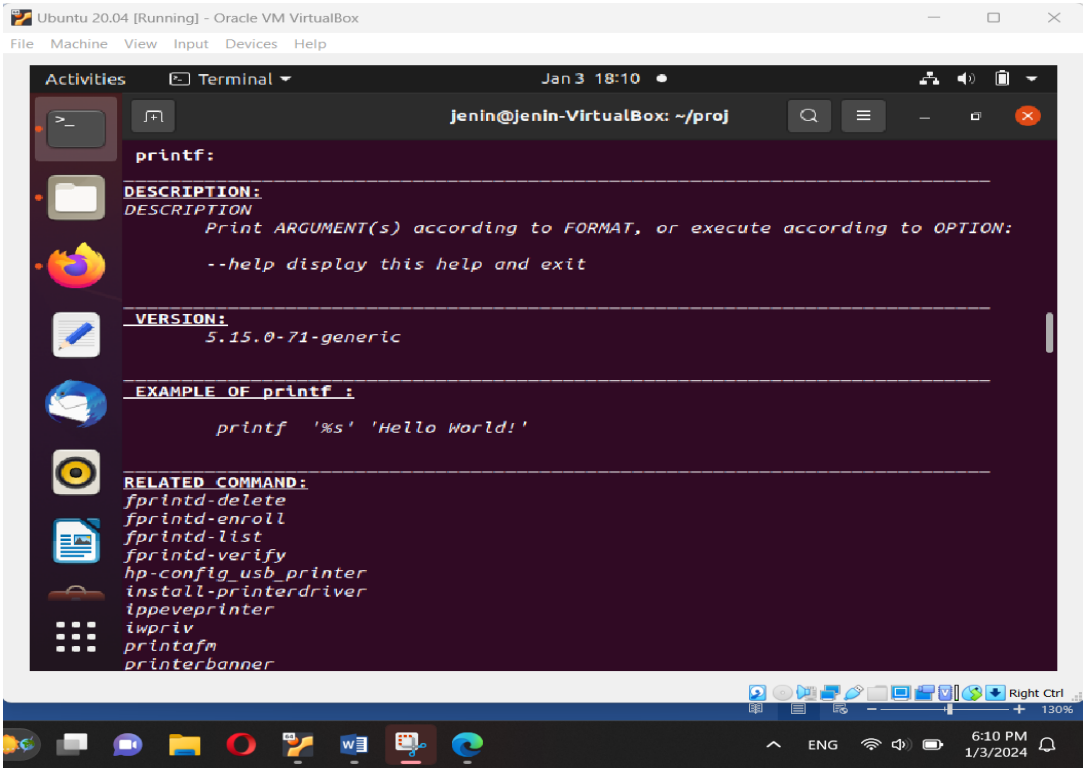
Right Ctrl

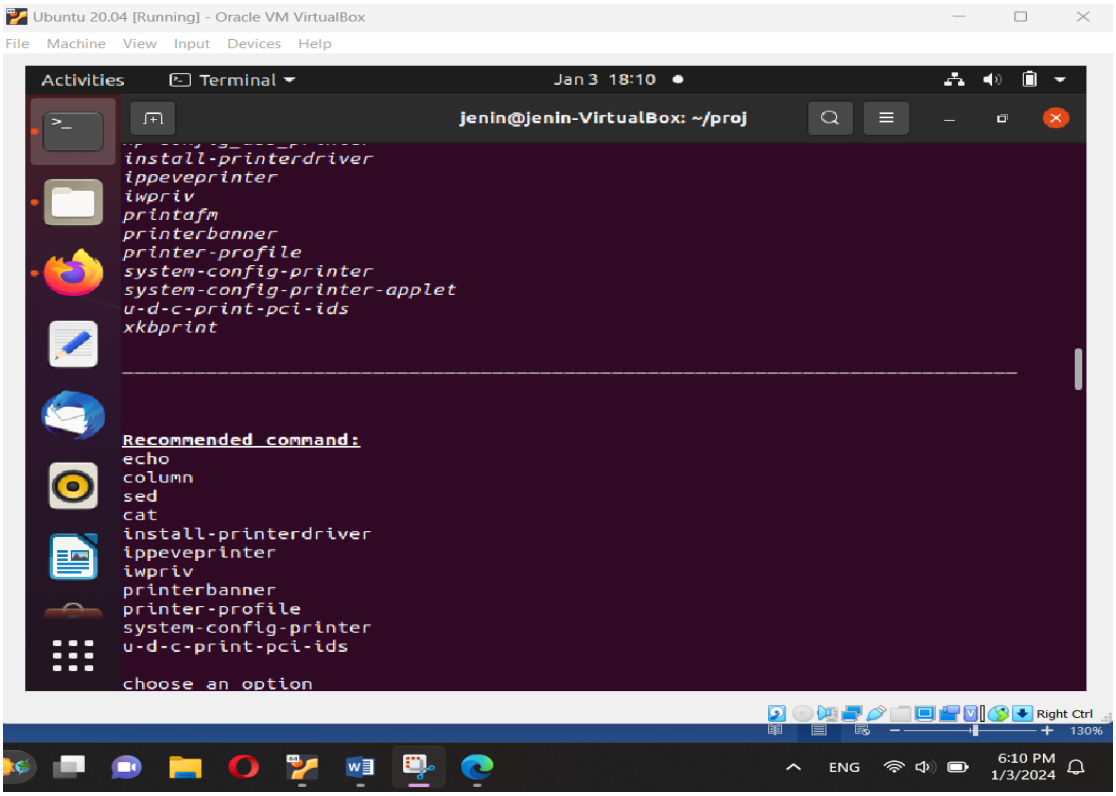
130%

ENG

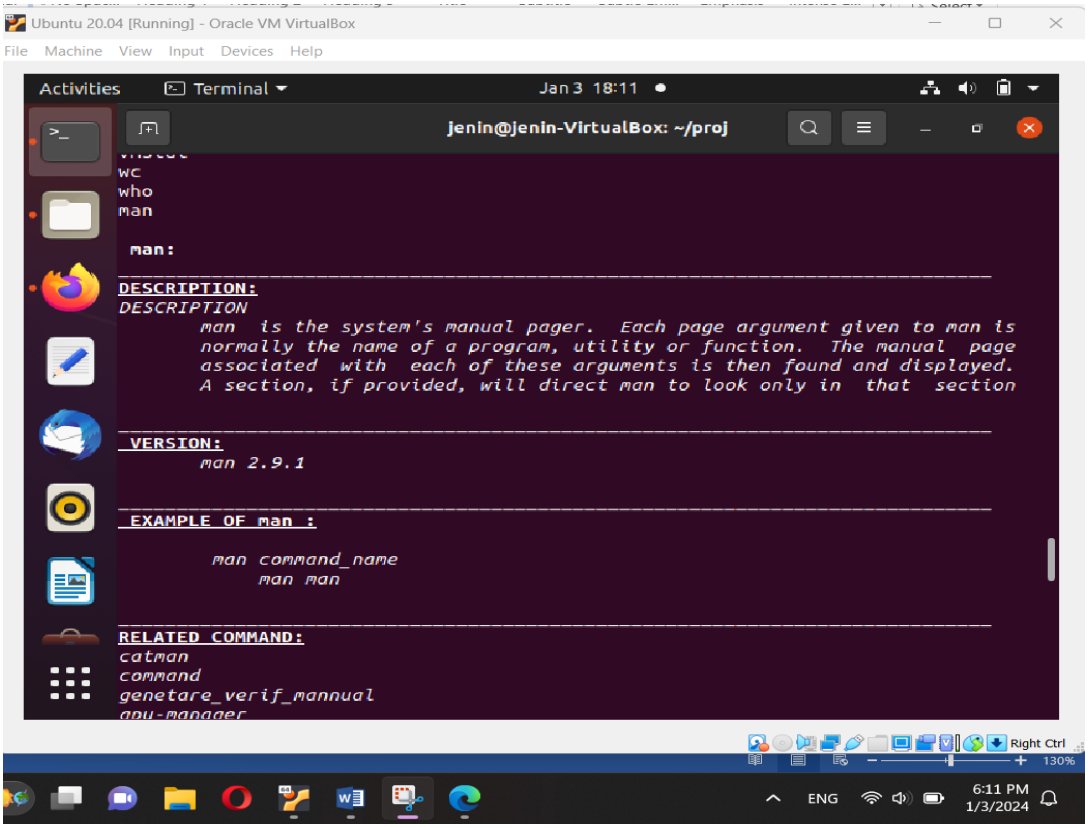
6:05 PM
1/3/2024

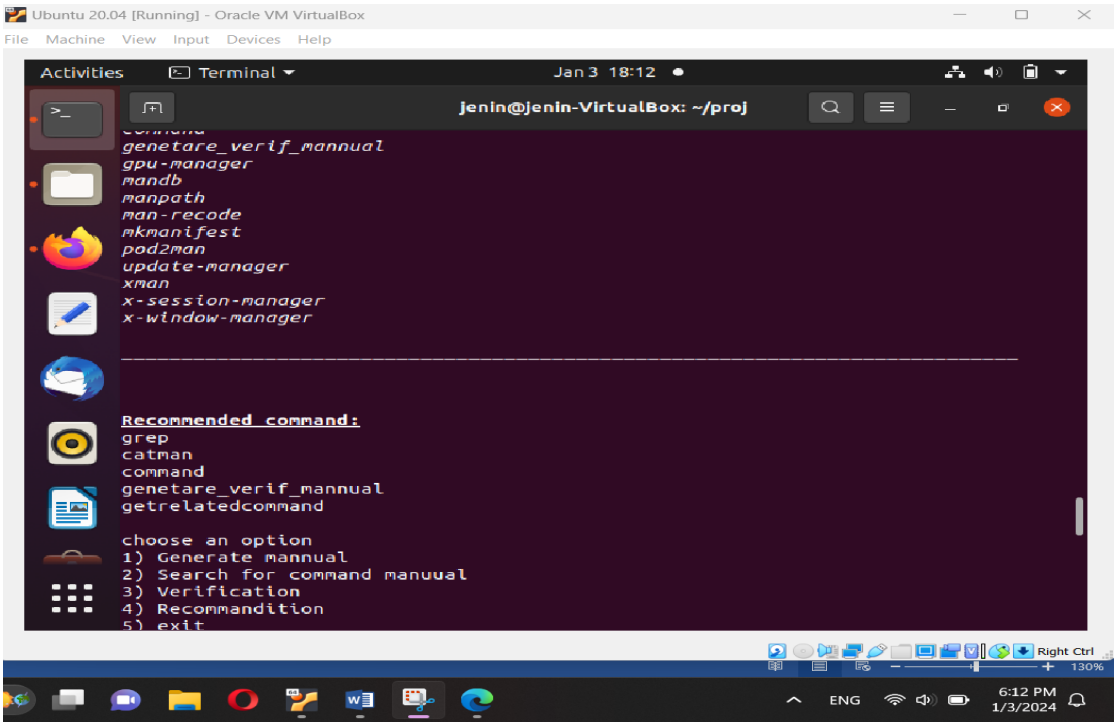
2-printf


Ubuntu 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Terminal
Jan 3 18:10
jenin@jenin-VirtualBox: ~/proj
printf:
DESCRIPTION:
DESCRIPTION
Print ARGUMENT(s) according to FORMAT, or execute according to OPTION:
--help display this help and exit
VERSION:
5.15.0-71-generic
EXAMPLE OF printf :
printf '%s' 'Hello World!'
RELATED COMMAND:
fprintd-delete
fprintd-enroll
fprintd-list
fprintd-verify
hp-config_usb_printer
install-printerdriver
ippeveprinter
iwpriv
printafm
printerbanner
Right Ctrl
ENG
6:10 PM
1/3/2024

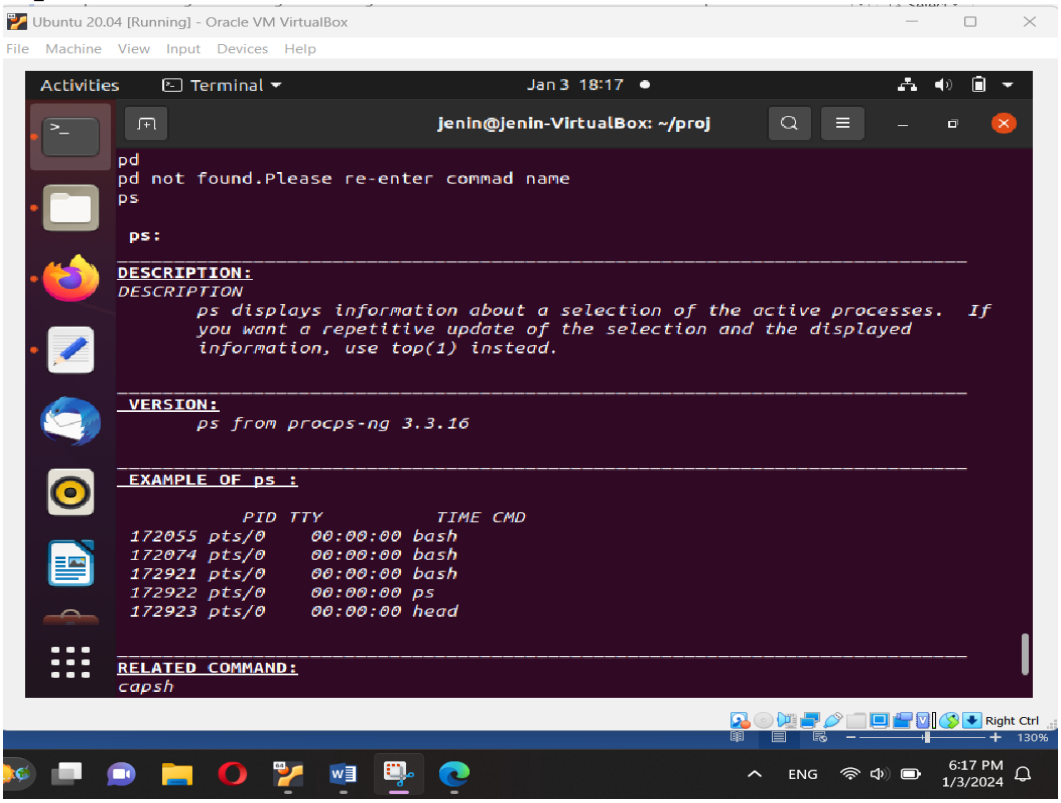

Ubuntu 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Terminal
Jan 3 18:10
jenin@jenin-VirtualBox: ~/proj
install-printerdriver
ippeveprinter
iwpriv
printafm
printerbanner
printer-profile
system-config-printer
system-config-printer-applet
u-d-c-print-pci-ids
xkbprint
Recommended command:
echo
column
sed
cat
install-printerdriver
ippeveprinter
iwpriv
printerbanner
printer-profile
system-config-printer
u-d-c-print-pci-ids
choose an option
Right Ctrl
ENG
6:10 PM
1/3/2024

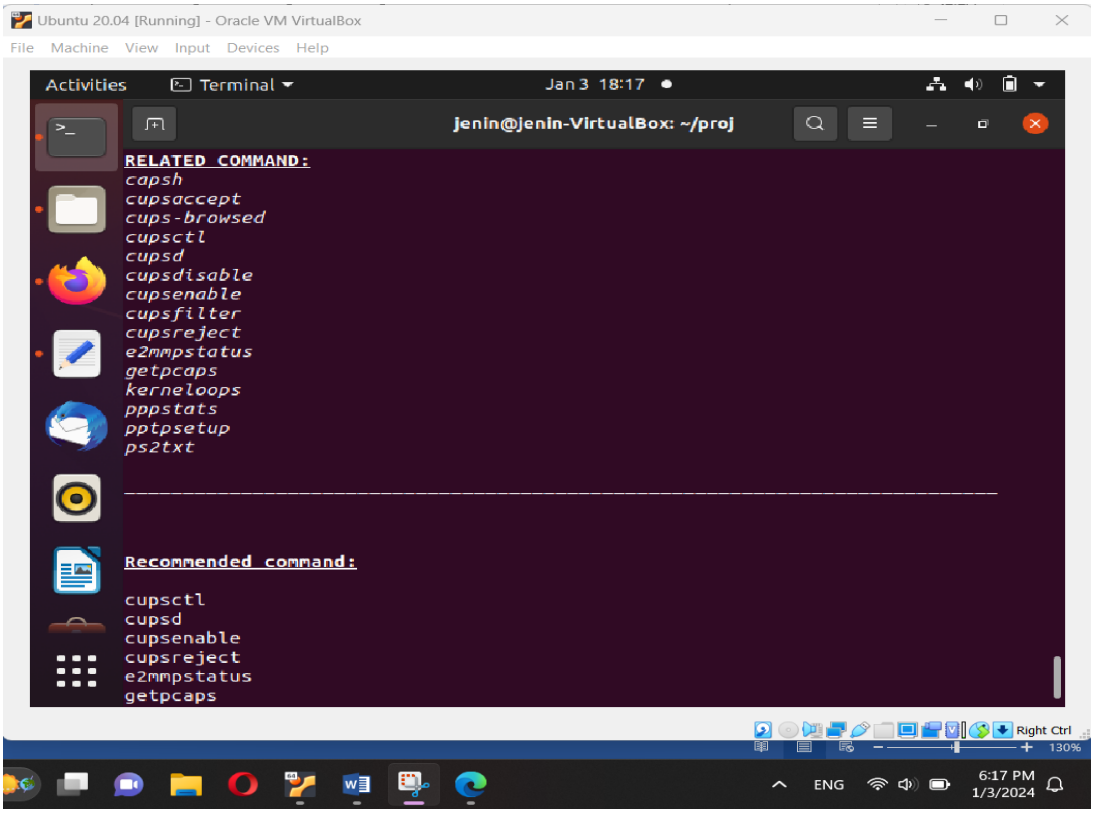
3-man


Ubuntu 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Jan 3 18:11
jenin@jenin-VirtualBox: ~/proj
wc
who
man
man:
DESCRIPTION:
DESCRIPTION
man is the system's manual pager. Each page argument given to man is normally the name of a program, utility or function. The manual page associated with each of these arguments is then found and displayed. A section, if provided, will direct man to look only in that section
VERSION:
man 2.9.1
EXAMPLE OF man :
man command_name
man man
RELATED COMMAND:
catman
command
genetare_verif_mannual
gpu-manager
Right Ctrl
ENG
6:11 PM
1/3/2024


Ubuntu 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Jan 3 18:12
jenin@jenin-VirtualBox: ~/proj
genetare_verif_mannual
gpu-manager
mandb
manpath
man-recode
mkmanifest
pod2man
update-manager
xman
x-session-manager
x-window-manager
Recommended command:
grep
catman
command
genetare_verif_mannual
getrelatedcommand
choose an option
1) Generate mannual
2) Search for command manuual
3) Verification
4) Recommandition
5) exit
Right Ctrl
ENG
6:12 PM
1/3/2024

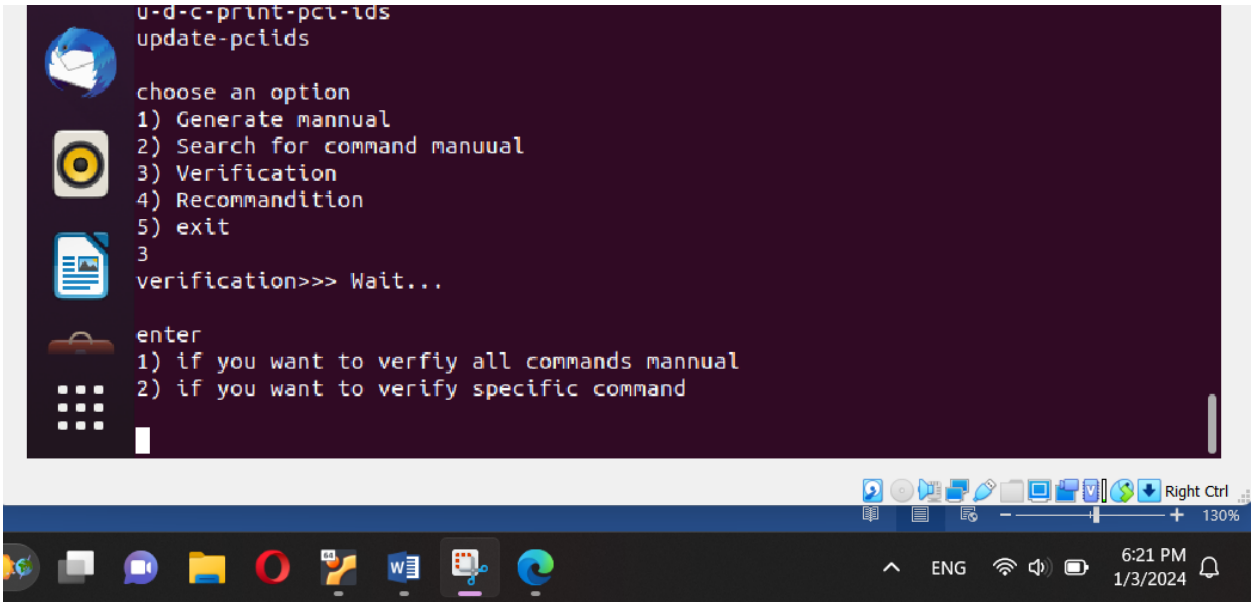
4-ps


Ubuntu 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Jan 3 18:17
jenin@jenin-VirtualBox: ~/proj
pd
pd not found.Please re-enter commad name
ps
ps:
DESCRIPTION:
DESCRIPTION
ps displays information about a selection of the active processes. If you want a repetitive update of the selection and the displayed information, use top(1) instead.
VERSION:
ps from procps-ng 3.3.16
EXAMPLE OF ps :
PID TTY TIME CMD
172055 pts/0 00:00:00 bash
172074 pts/0 00:00:00 bash
172921 pts/0 00:00:00 bash
172922 pts/0 00:00:00 ps
172923 pts/0 00:00:00 head
RELATED COMMAND:
capsh
Right Ctrl
ENG
6:17 PM
1/3/2024

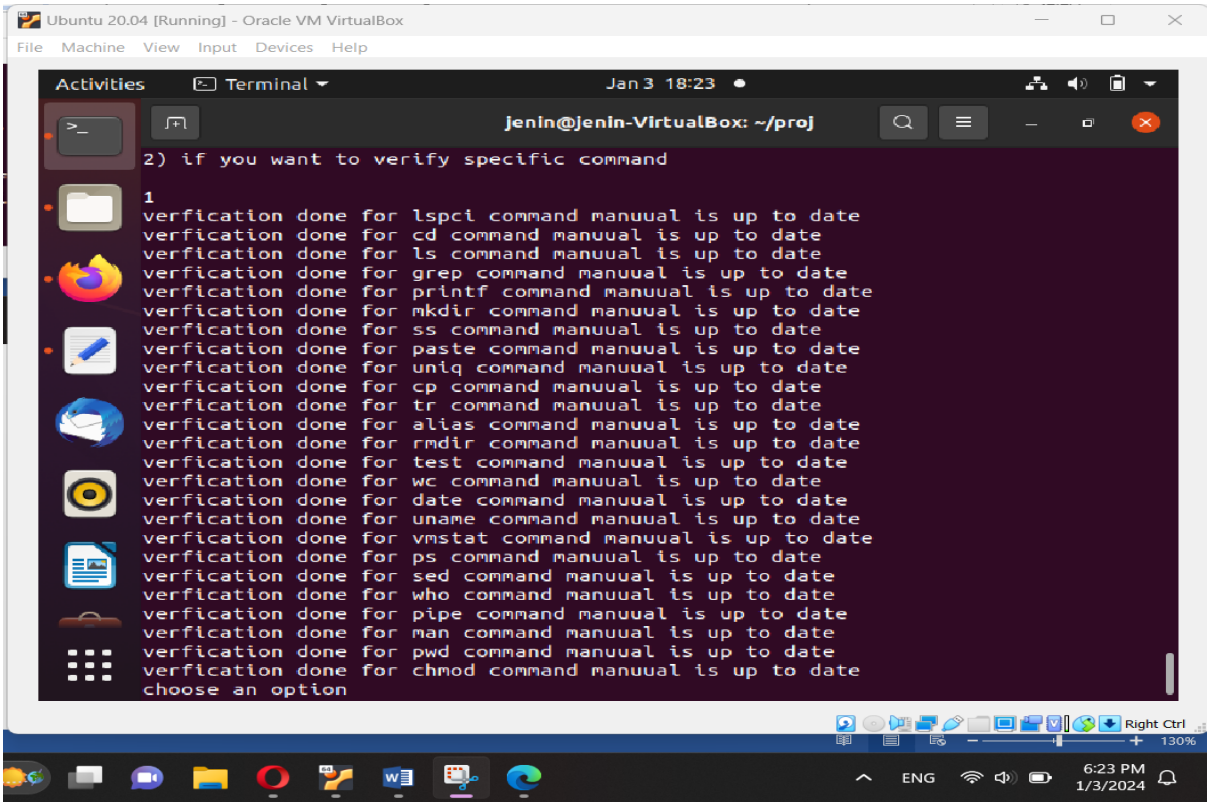

Ubuntu 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Jan 3 18:17
jenin@jenin-VirtualBox: ~/proj
RELATED COMMAND:
capsh
cupsaccept
cups-browsed
cupsctl
cupsd
cupsdisable
cupsenable
cupsfilter
cupsreject
e2mmpstatus
getpcaps
kerneloops
pppstats
pptpsetup
ps2txt
Recommended command:
cupsctl
cupsd
cupsenable
cupsreject
e2mmpstatus
getpcaps
Right Ctrl
ENG
6:17 PM
1/3/2024

3-Verification:

We can choose to have all command verified at once or separately

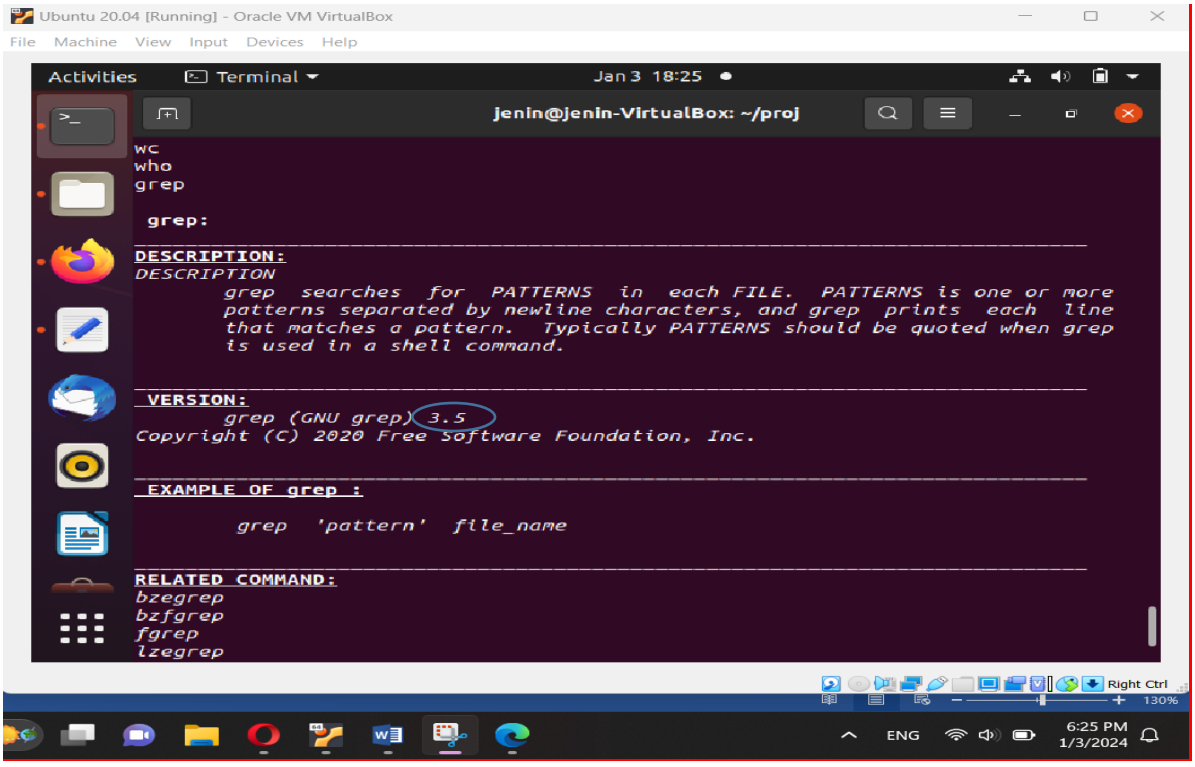


At once

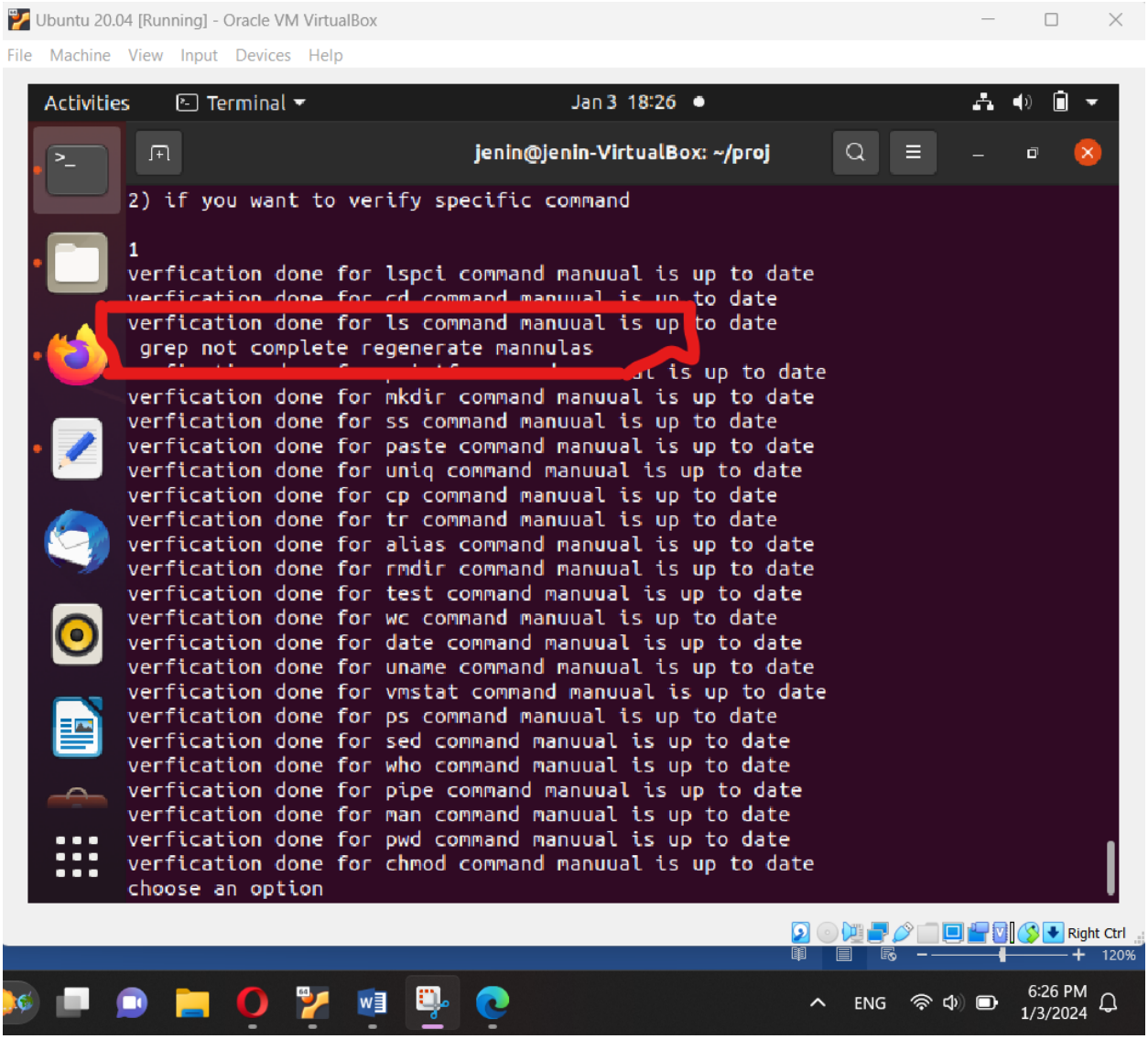


This is ‘ grep ‘ manual before changing the (version)

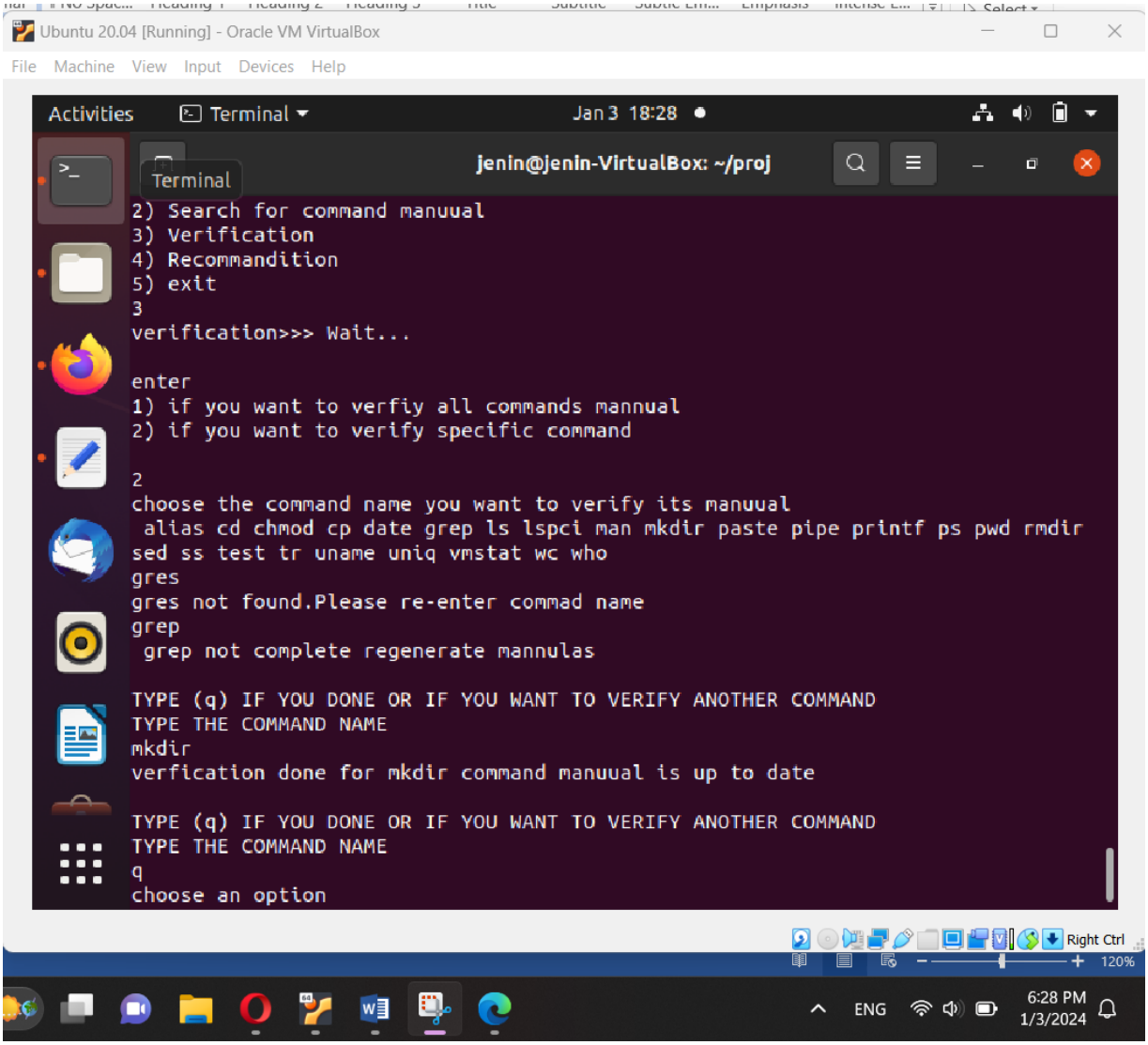
Now I changed the version to 3.5



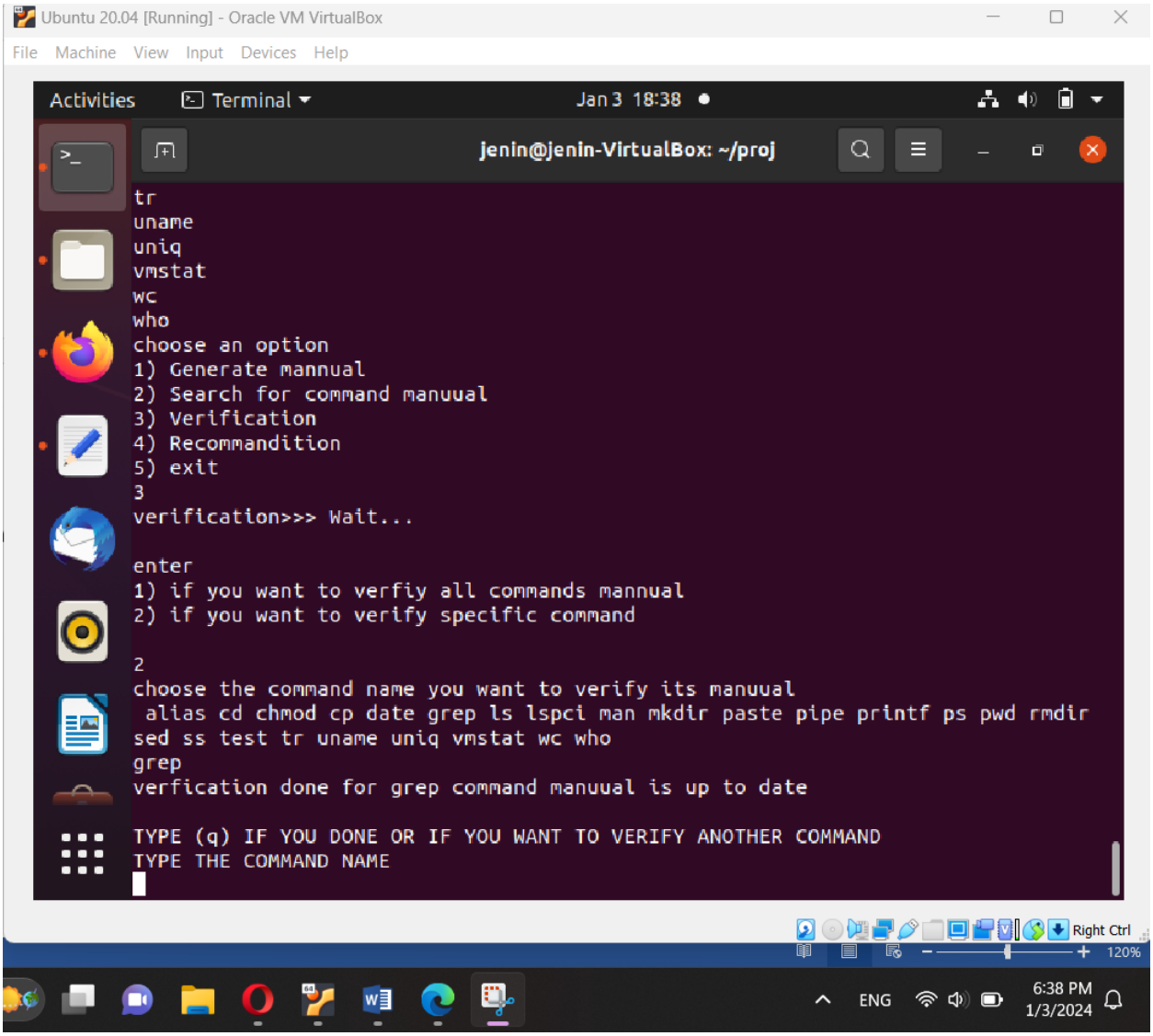
Now test the verification:



Check ‘grep’ separately and mkdir command.



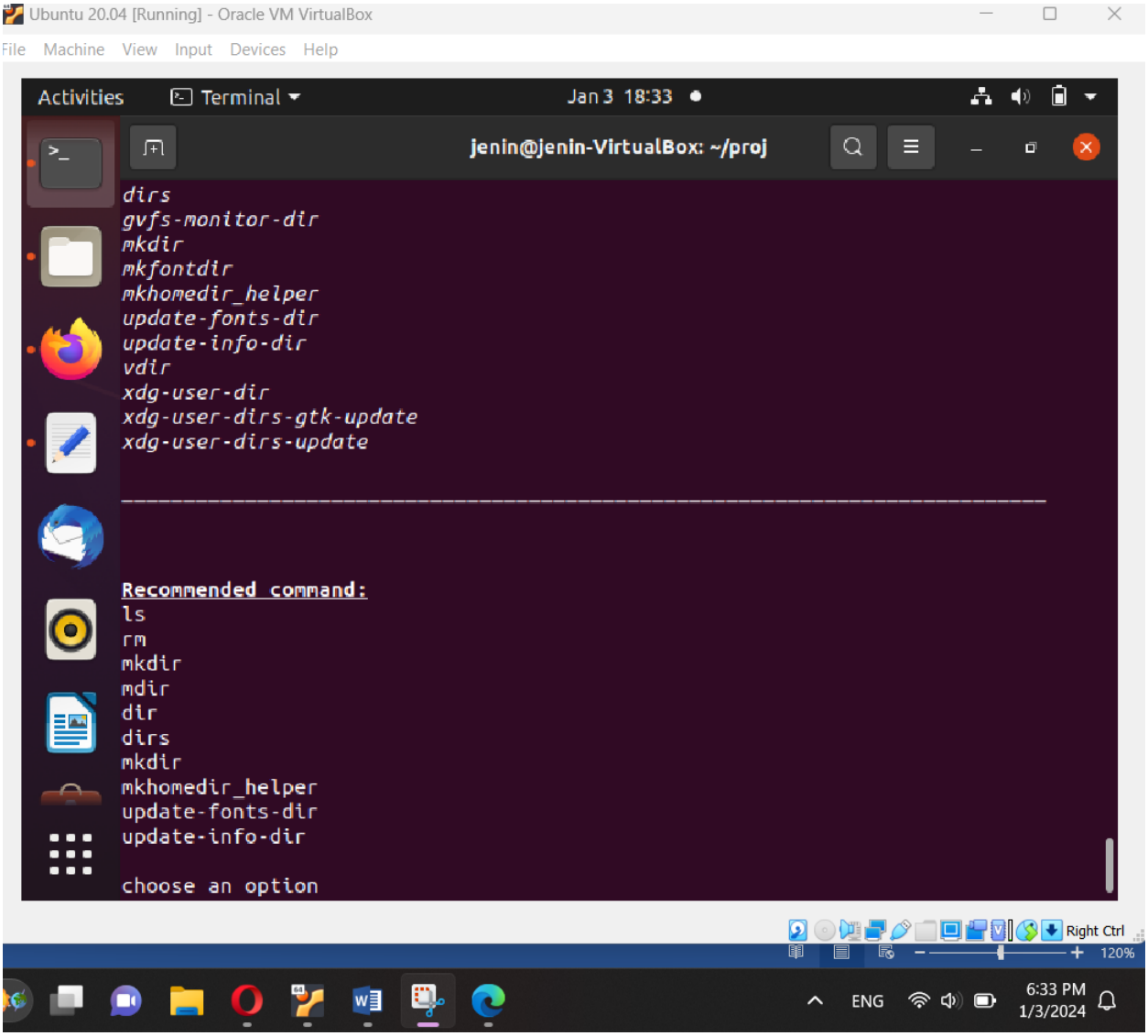
Regenerate manual and check again



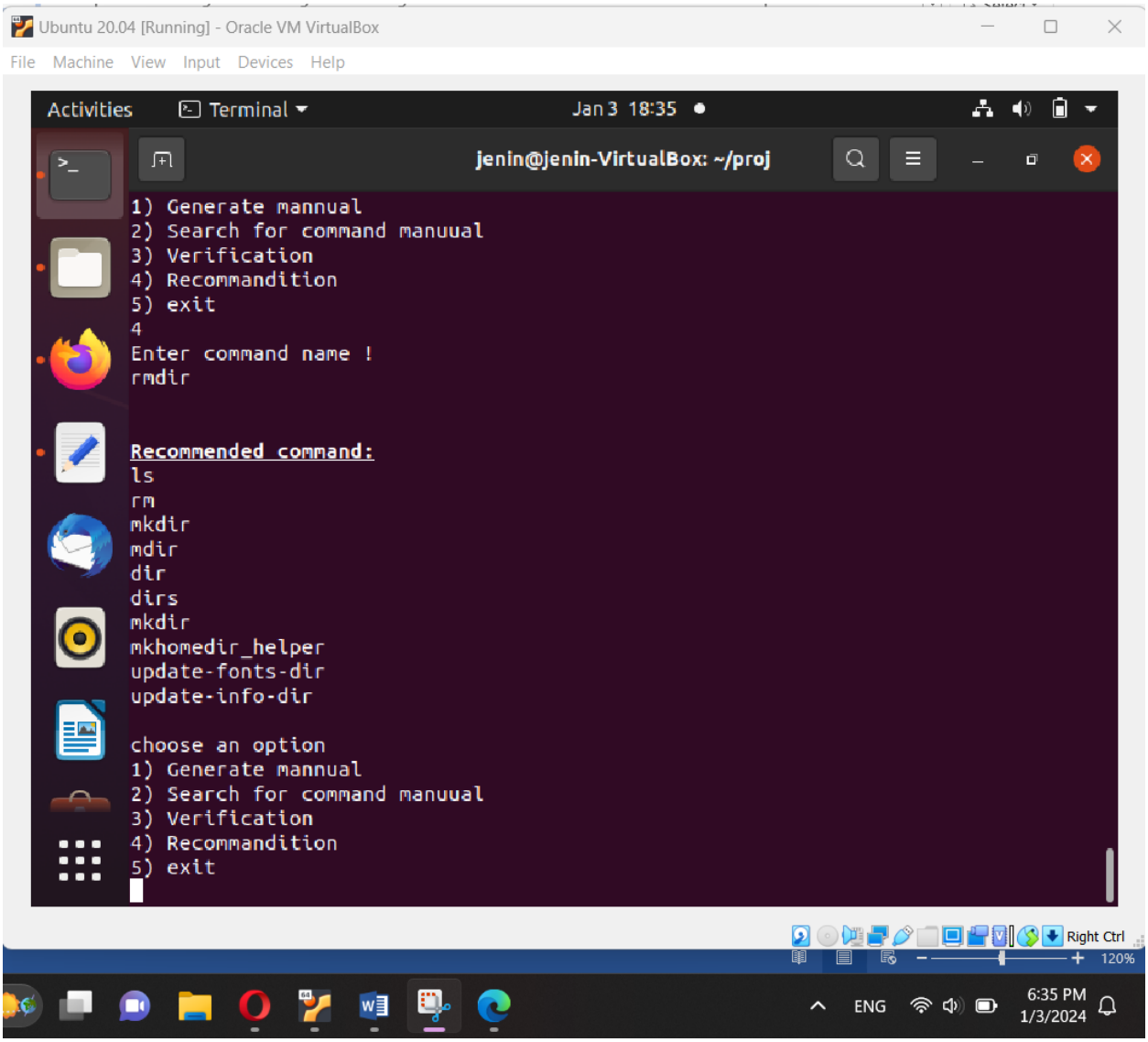
4-Command Recommendation

Commands are recommended after selecting each command, and I have also added a separate option to get Recommendation

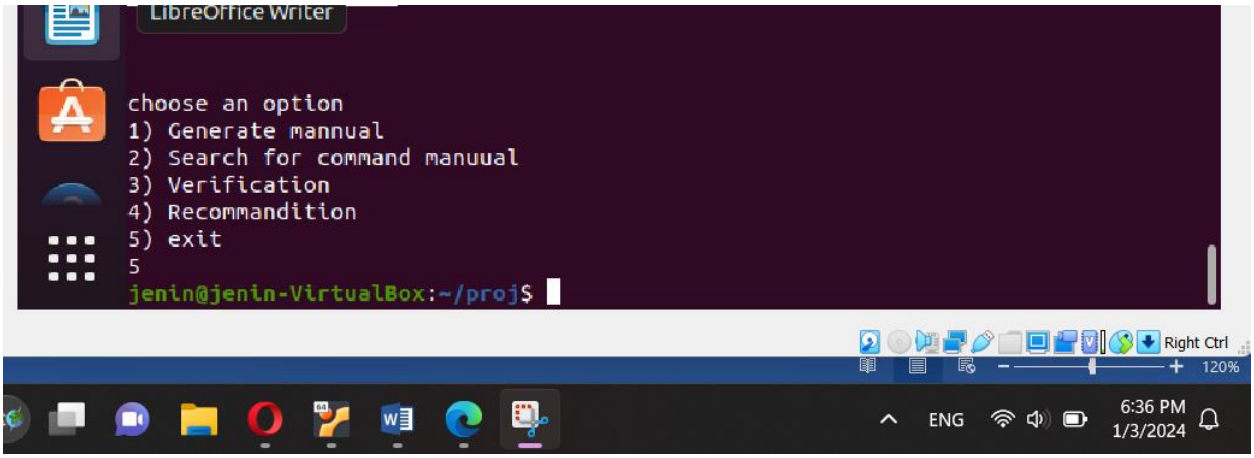
Recommendation for “rmdir” command:



Separate function:



Exit.


LibreOffice Writer
choose an option
1) Generate mannual
2) Search for command manuual
3) Verification
4) Recommandition
5) exit
5
jenin@jenin-VirtualBox:~/proj$
Right Ctrl
120%
ENG
6:36 PM
1/3/2024