LECTURE 3
USER INTERFACE

- Command line skills
- Linux files and directories

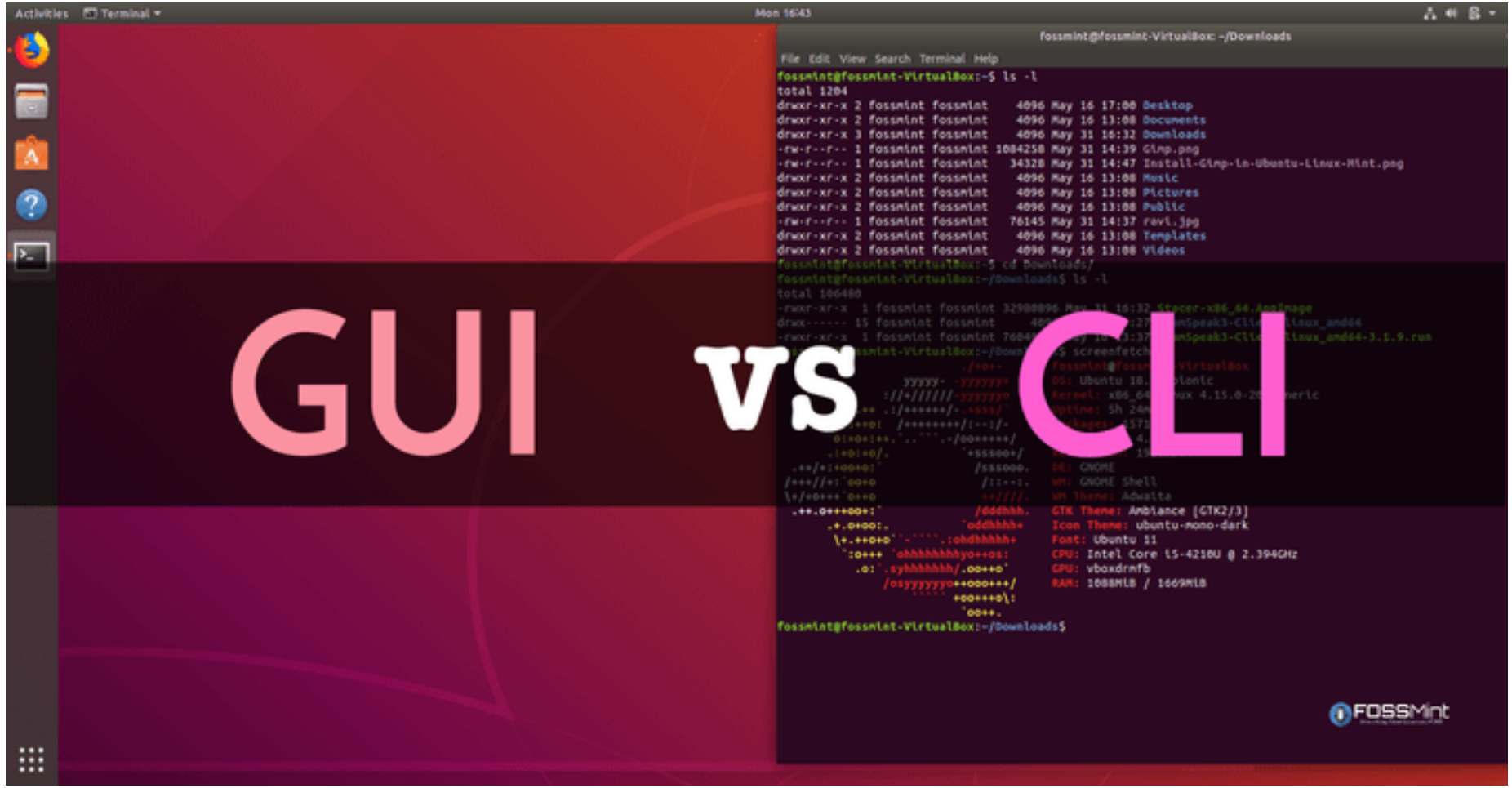
Ubuntu Desktop
10:25 PM
Recorded by Mobizen

What is user interface (UI)?

The user interface (UI) is the point of human-computer interaction and communication

What is "the Shell"?

The shell is a program that takes commands from the keyboard and gives them to the operating system to perform. Nowadays, we have *graphical user interfaces (GUIs) shell* in addition to *command line interfaces (CLIs) shell*.


Activities
Terminal
Mon 16:43
fossmint@fossmint-VirtualBox: ~/Downloads
File Edit View Search Terminal Help
fossmint@fossmint-VirtualBox:~$ ls -l
total 1204
drwxr-xr-x 2 fossmint fossmint 4096 May 16 17:00 Desktop
drwxr-xr-x 2 fossmint fossmint 4096 May 16 13:08 Documents
drwxr-xr-x 3 fossmint fossmint 4096 May 31 16:32 Downloads
-rw-r--r-- 1 fossmint fossmint 1084258 May 31 14:39 Gimp.png
-rw-r--r-- 1 fossmint fossmint 34328 May 31 14:47 Install-Gimp-In-Ubuntu-Linux-Mint.png
drwxr-xr-x 2 fossmint fossmint 4096 May 16 13:08 Music
drwxr-xr-x 2 fossmint fossmint 4096 May 16 13:08 Pictures
drwxr-xr-x 2 fossmint fossmint 4096 May 16 13:08 Public
-rw-r--r-- 1 fossmint fossmint 76145 May 31 14:37 ravi.jpg
drwxr-xr-x 2 fossmint fossmint 4096 May 16 13:08 Templates
drwxr-xr-x 2 fossmint fossmint 4096 May 16 13:08 Videos
fossmint@fossmint-VirtualBox:~$ cd Downloads/
fossmint@fossmint-VirtualBox:~/Downloads$ ls -l
total 186480
fossmint@fossmint-VirtualBox:~/Downloads$
FOSSMint
GUI
vs
CLI

- graphical user interface (GUI) is a digital interface in which a user interacts with graphical components such as icons, buttons, and menus.

What is a command-line interface?

A command-line interface (CLI) is a text-based user interface (UI) used to run programs, manage computer files and interact with the computer. Command-line interfaces are also called *command-line user interfaces*, *console user interfaces* and *character user interfaces*. CLIs accept as input commands that are entered by keyboard; the commands invoked at the command prompt are then run by the computer.

Why we need the command line???

Why we need the command line???

- There are some tasks can’t be done by GUI.
- To know more details in the background programs and files.

How write the command line??
TERMINAL ???

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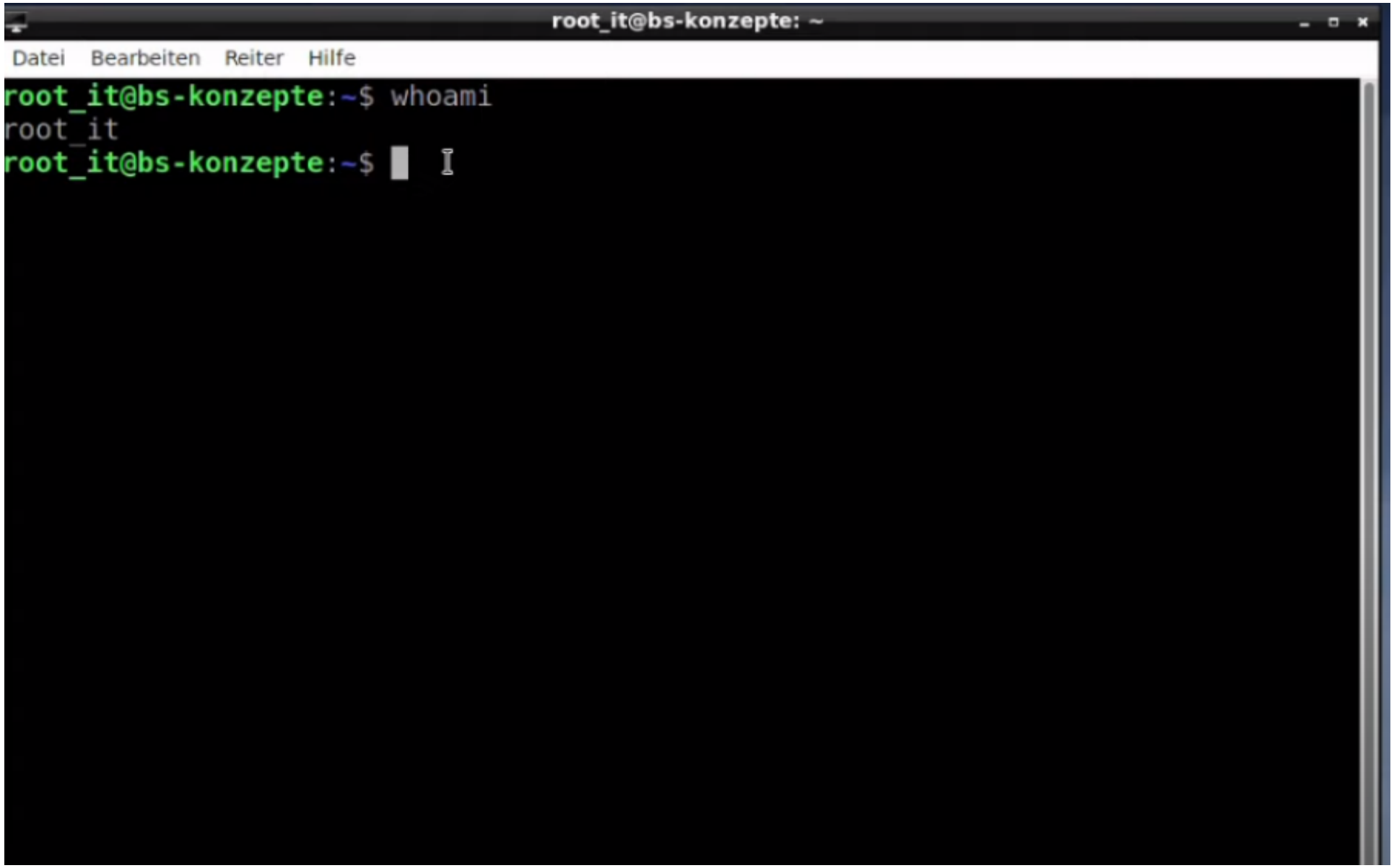
What's a "Terminal?“
It’s a tool which you can use to pass your shell commands.

- This is a program that opens a black window and lets you interact with the shell. There are a bunch of different terminal emulators we can use.

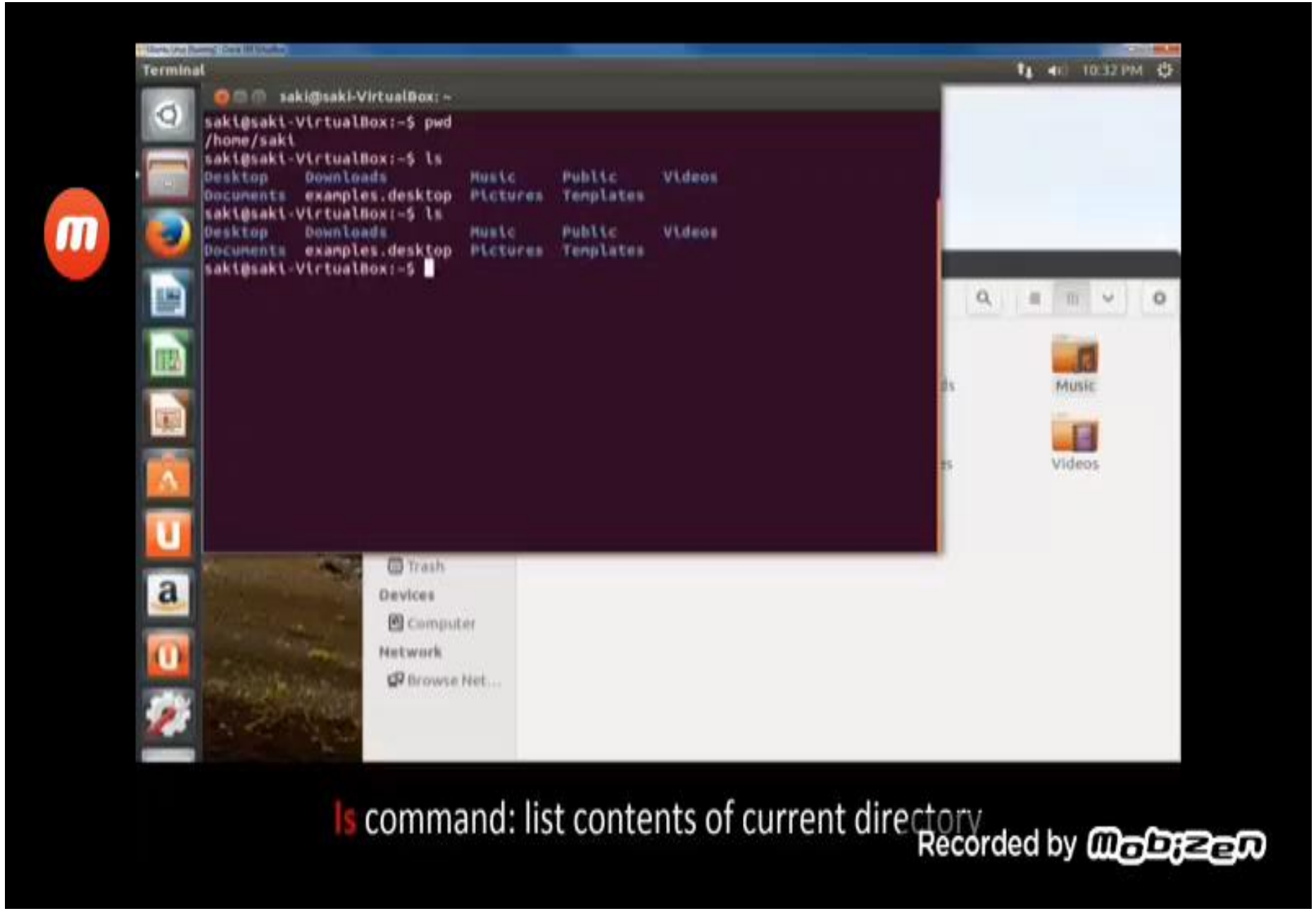
Essential command lines

“Whoami” to know the user name.

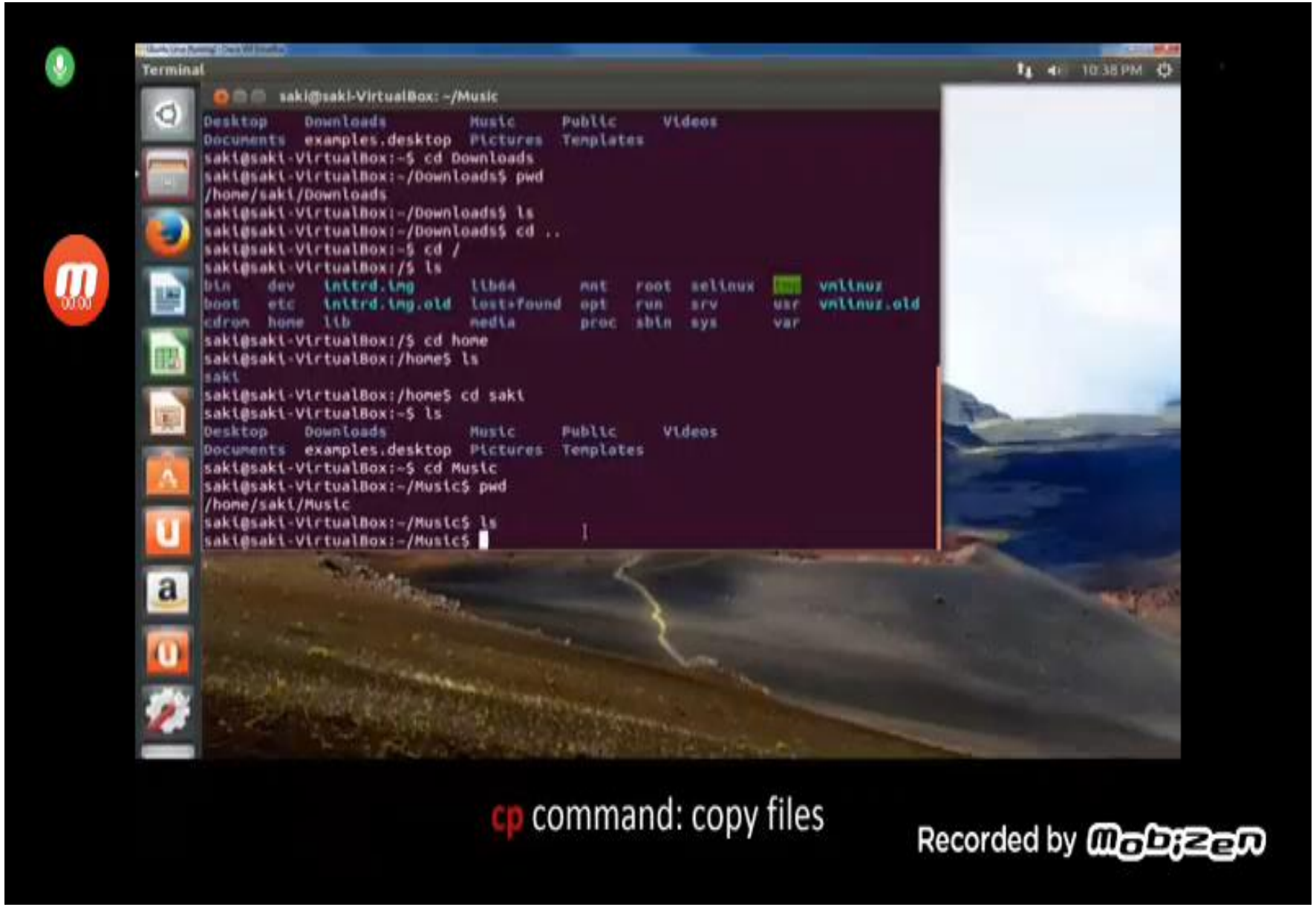


Ubuntu Desktop
10:25 PM
Recorded by MobiZen

- Pwd: print working directory
- Ls: list content of current directory
- Check from GUI


Terminal
10:32 PM
saki@saki-VirtualBox: ~
saki@saki-VirtualBox:~$ pwd
/home/saki
saki@saki-VirtualBox:~$ ls
Desktop Downloads Music Public Videos
Documents examples.desktop Pictures Templates
saki@saki-VirtualBox:~$ ls
Desktop Downloads Music Public Videos
Documents examples.desktop Pictures Templates
saki@saki-VirtualBox:~$
Music
Videos
Trash
Devices
Computer
Network
Browse Net...
ls command: list contents of current directory
Recorded by Mobizen

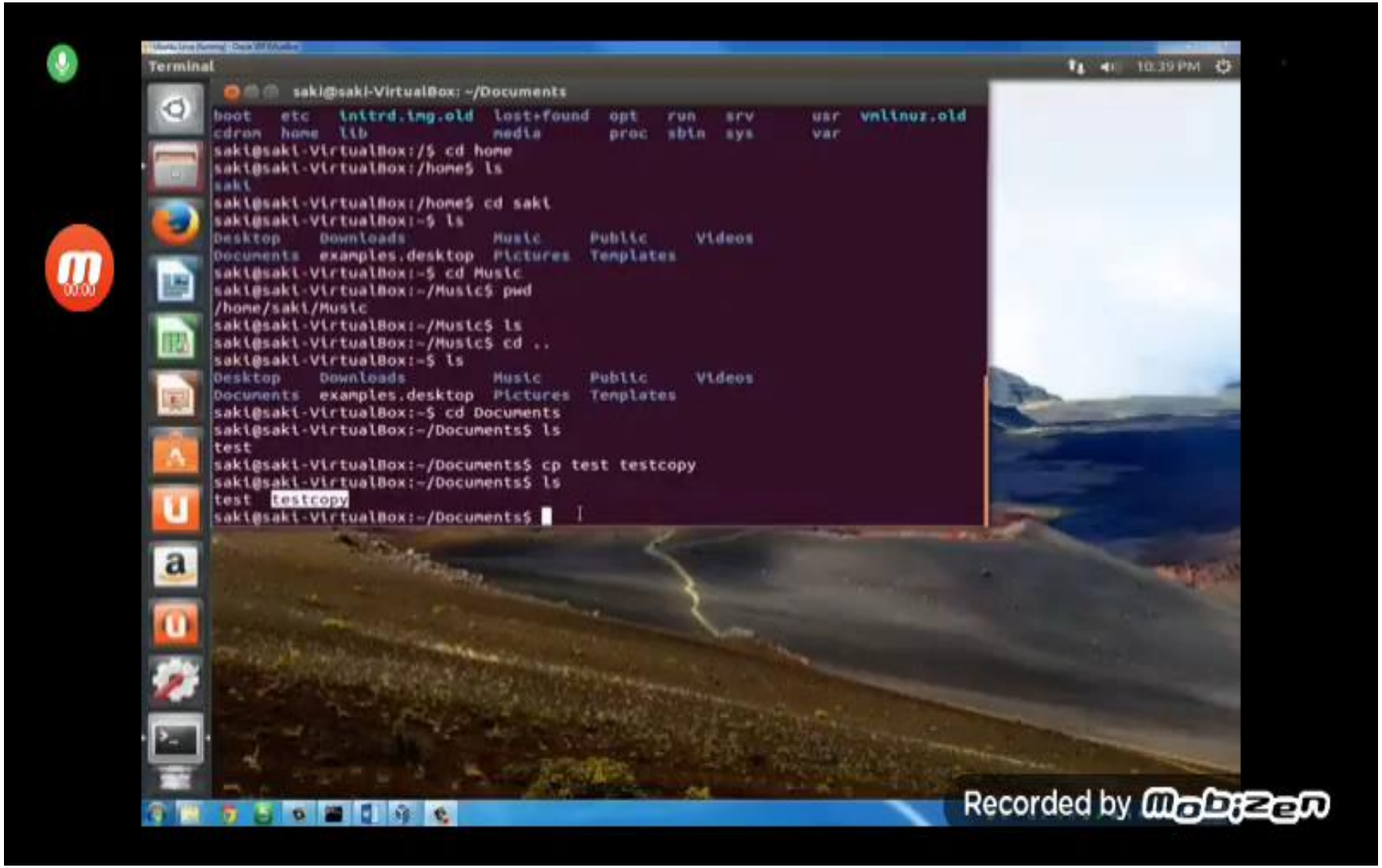
- Clear: clear the screen
- Cd: used to navigate between directories and folders
- Cd.. get up to original directory
- cd∇/ get up to root directory



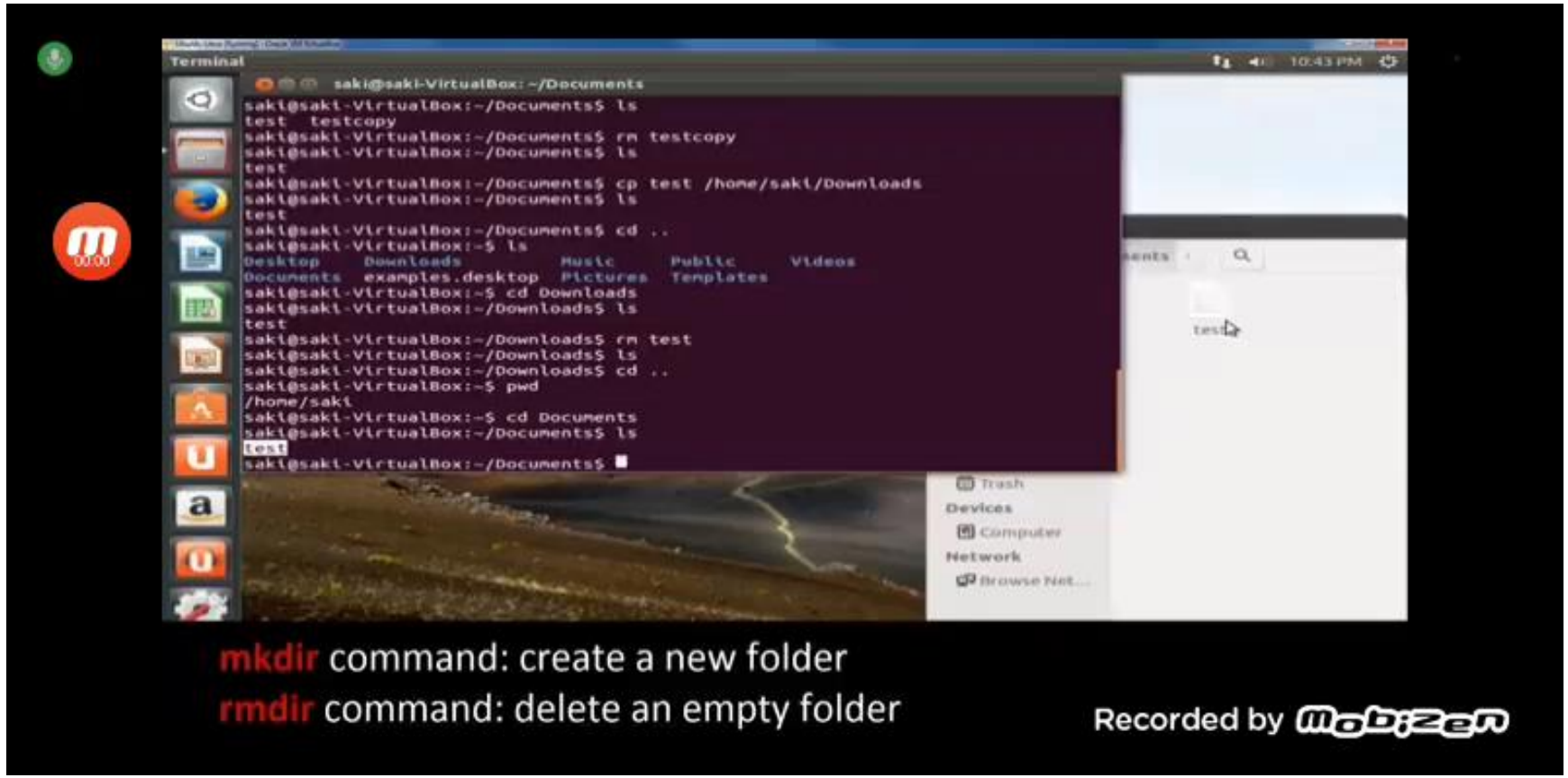
cp command: copy files

Recorded by Mobizen

- CP: copy files
-
- Cp filename copy-filename


Terminal
10:39 PM
saki@saki-VirtualBox: ~/Documents
boot etc initrd.img.old lost+found opt run srv usr vmlinuz.old
cdrom home lib media proc sbin sys var
saki@saki-VirtualBox:/$ cd home
saki@saki-VirtualBox:/home$ ls
saki
saki@saki-VirtualBox:/home$ cd saki
saki@saki-VirtualBox:~$ ls
Desktop Downloads Music Public Videos
Documents examples.desktop Pictures Templates
saki@saki-VirtualBox:~$ cd Music
saki@saki-VirtualBox:~/Music$ pwd
/home/saki/Music
saki@saki-VirtualBox:~/Music$ ls
saki@saki-VirtualBox:~/Music$ cd ..
saki@saki-VirtualBox:~$ ls
Desktop Downloads Music Public Videos
Documents examples.desktop Pictures Templates
saki@saki-VirtualBox:~$ cd Documents
saki@saki-VirtualBox:~/Documents$ ls
test
saki@saki-VirtualBox:~/Documents$ cp test testcopy
saki@saki-VirtualBox:~/Documents$ ls
test testcopy
saki@saki-VirtualBox:~/Documents$
Recorded by MobiZen

- Rm: remove files
-
- Rm filename



mkdir command: create a new folder

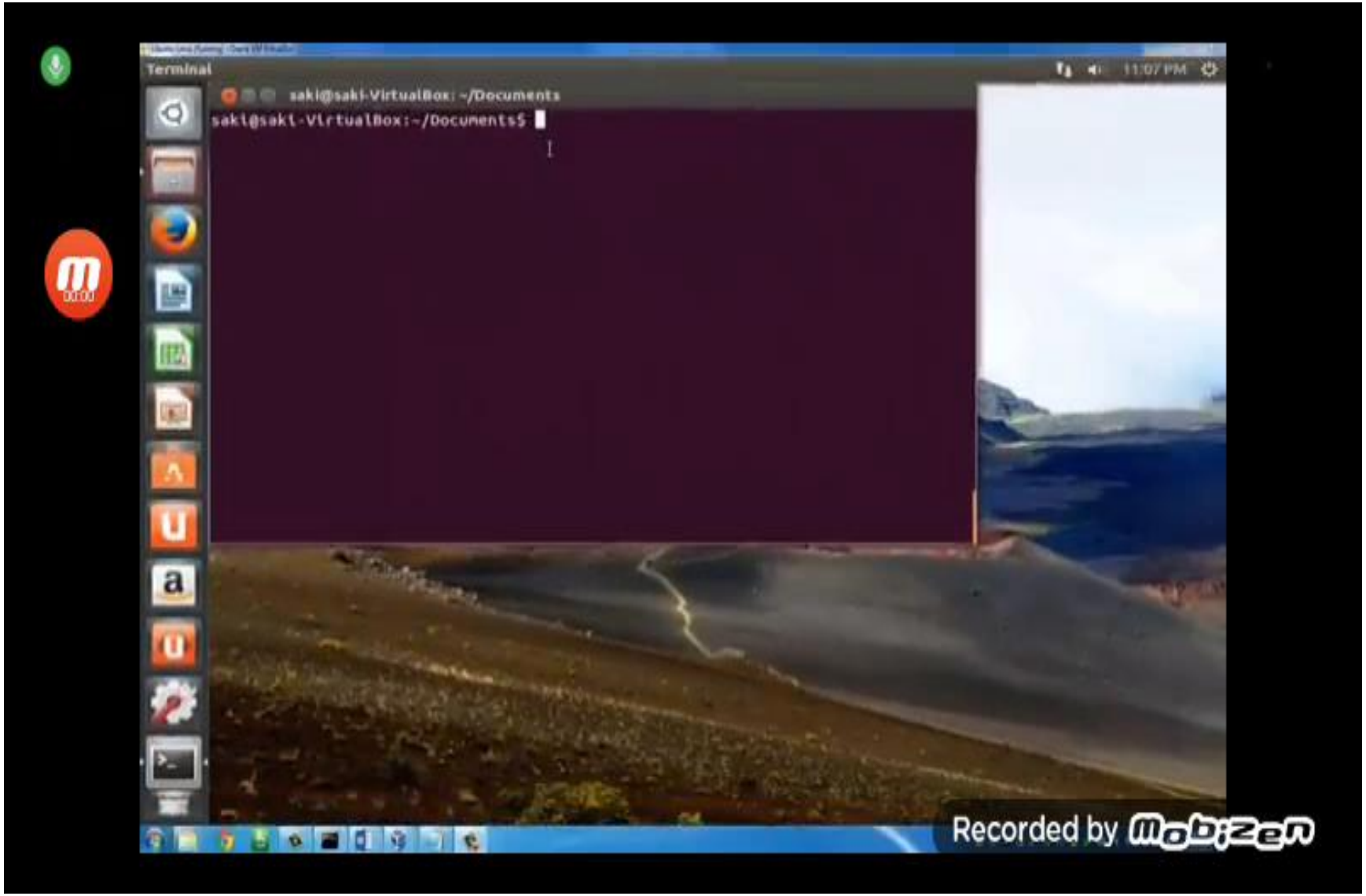
rmdir command: delete an empty folder

Recorded by Mobizen

- Mkdir: create new folder
- Mkdir directory-name

- Rmdir: delete a directory

- Rmdir directory-name


Terminal
11:07 PM
saki@saki-VirtualBox: ~/Documents
saki@saki-VirtualBox:~/Documents$
Recorded by Mobizen

- Man : describe the command
- Man command
- Click q to exit the command details

Sheet

Select the following answer:

1. The …….is the point of human-computer interaction and communication

a. UI b. GNU c. Computer system d. shell

2. The …….. is a program that takes commands from the keyboard and gives them to the operating system to perform

a. UI b. shell c. GNU d. computer system

3. The …….. Is the libraries to operate the applications

a. UI b. shell c. GNU d. computer system

4. ……..is a digital interface in which a user interacts with graphical components such as icons, buttons, and menus

a. CLI b. GUI c. UI d. all the above

5. …. Is command used to print working directory

a. Pwd b. Cd c.CP d. Man

6. …. Is command used to list content of current directory

a. Pwd b. Cd c.CP d. Ls

7. …. Is command used to clear the screen

a. Pwd b. Clear c.CP d. Man

8. …. Is command used to navigate between directories and folders

a. Pwd b. Cd c.CP d. Man

9. …. Is command used to copy files

a. Pwd b. Cd c.CP d. Man

10. …. Is command used to remove files

a. Rm b. Cd c.CP d. Man

11. …. Is command used to create new folder

a. Pwd b. Cd c. Mkdir d. Man

11. …. Is command used to delete a directory

a. Pwd b. Cd c. Mkdir d. Rmdir

Sheet

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11. …. Is command used to create new folder

a. Pwd b. Cd c. Mkdir d. Man

11. …. Is command used to delete a directory

a. Pwd b. Cd c. Mkdir d. Rmdir