

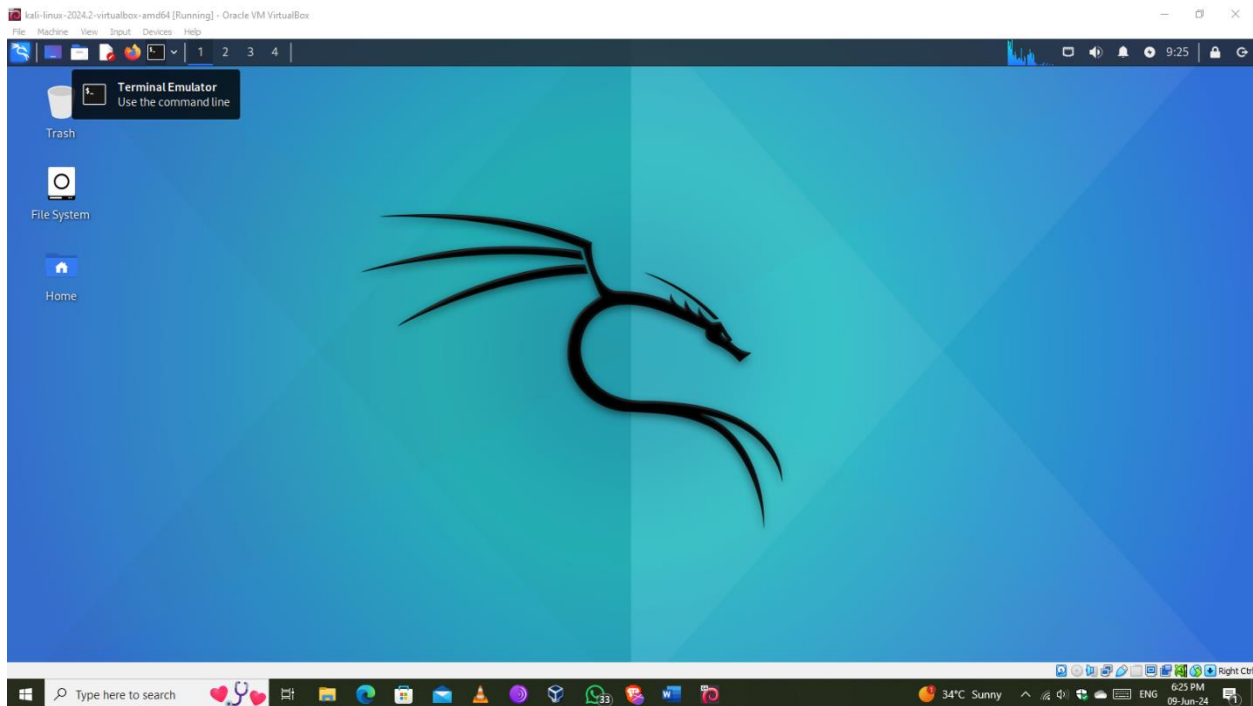
## What is the Terminal?

The terminal is a text-based interface to the system, where users can type commands to perform specific tasks. It's an essential tool for Linux users, especially for administrative tasks, scripting, and troubleshooting.

## How to Open the Terminal?

### 1. Using the GUI:

- **Kali Linux:** You can open the terminal by clicking on the terminal icon in the taskbar or searching for "Terminal" in the applications menu.



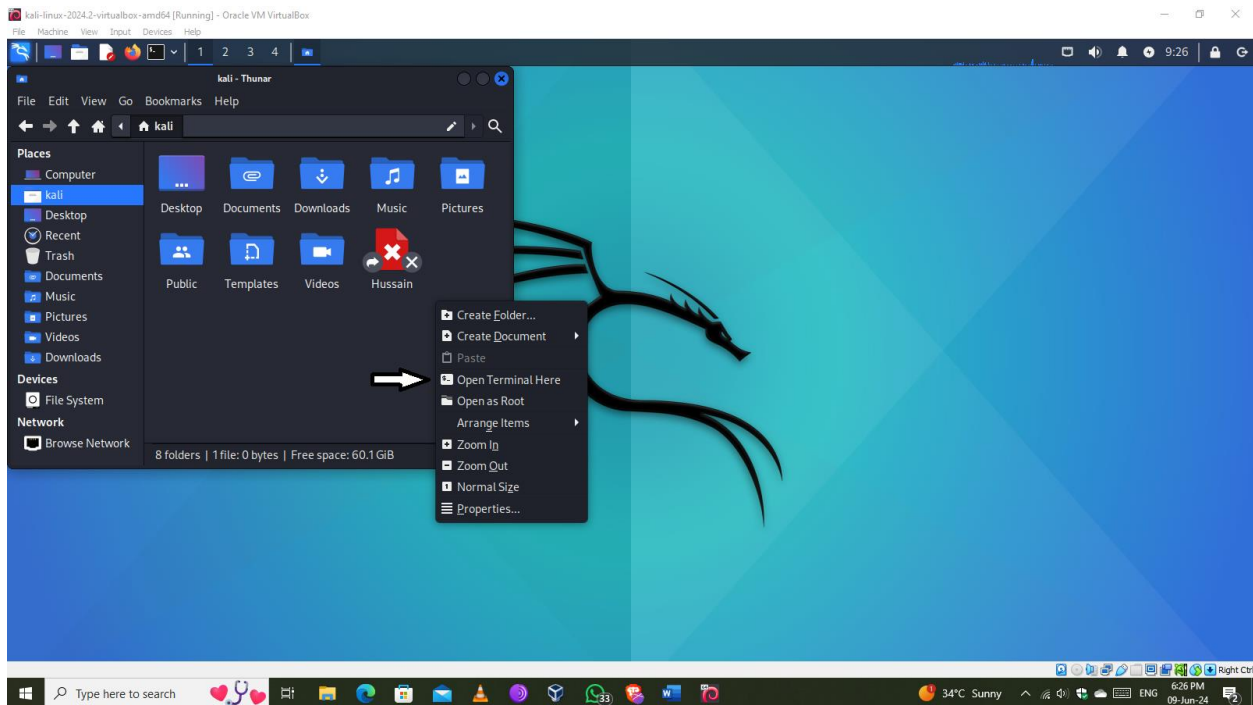
- **Shortcut:** You can also use the keyboard shortcut Ctrl + Alt + T to open the terminal.

## How to Open the Terminal in Any Folder?

To open the terminal in a specific folder, you can:

### 1. Using the GUI:

- Navigate to the desired folder using the file manager.
- Right-click inside the folder.
- Select "Open Terminal Here" from the context menu.



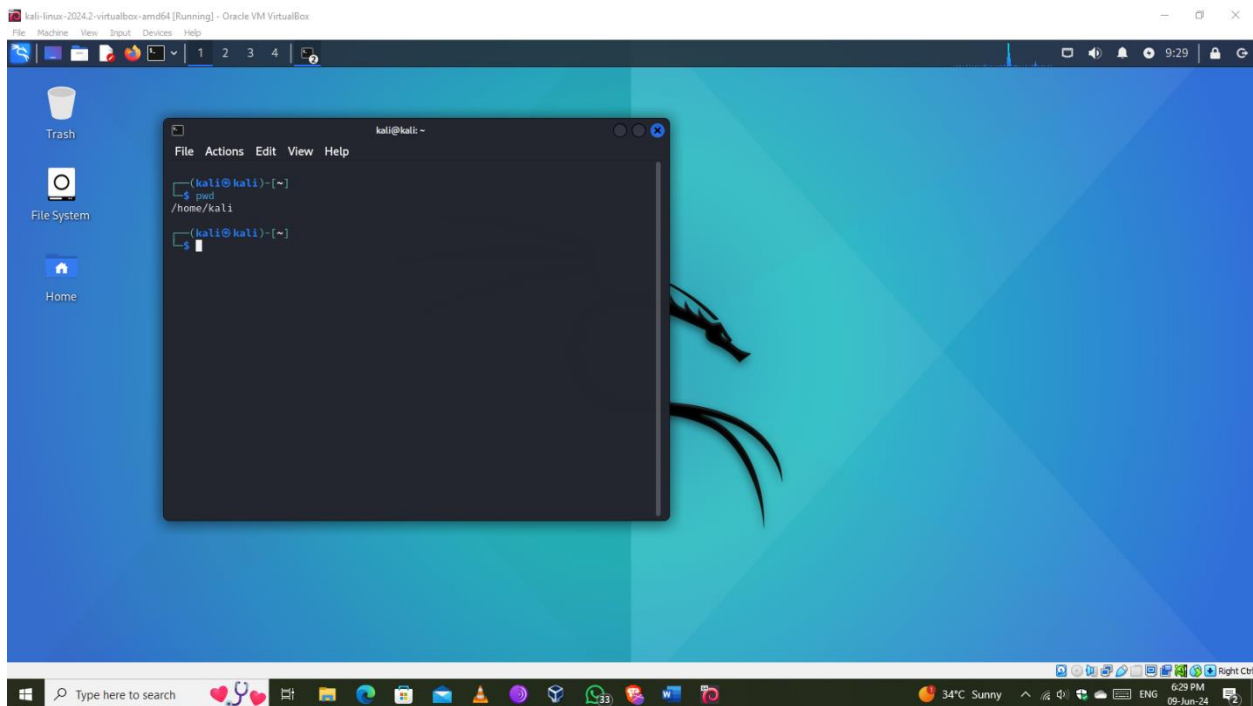
### 2. Using the Terminal:

- Open the terminal.
- Use the cd (change directory) command to navigate to the desired folder.

## Some Basics Commands Explained:

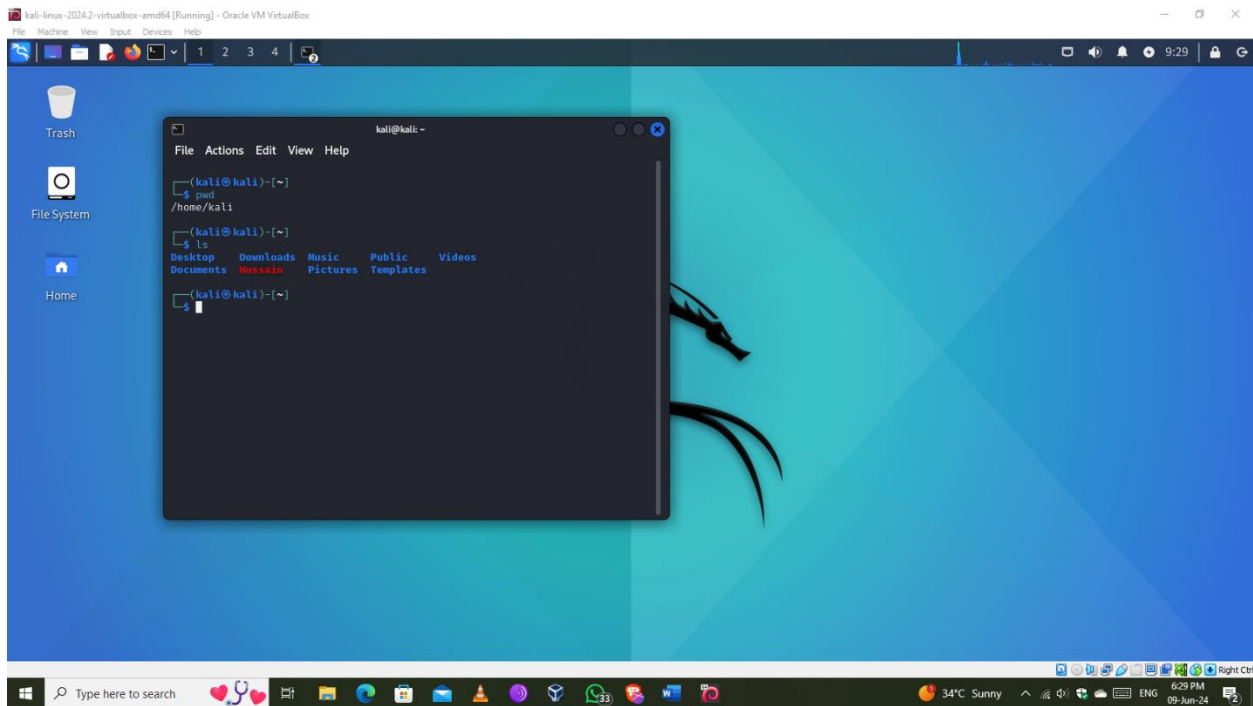
### 1. pwd (Print Working Directory):

- **Usage:** pwd
- **Explanation:** Displays the full path of the current working directory.
- **Example:**



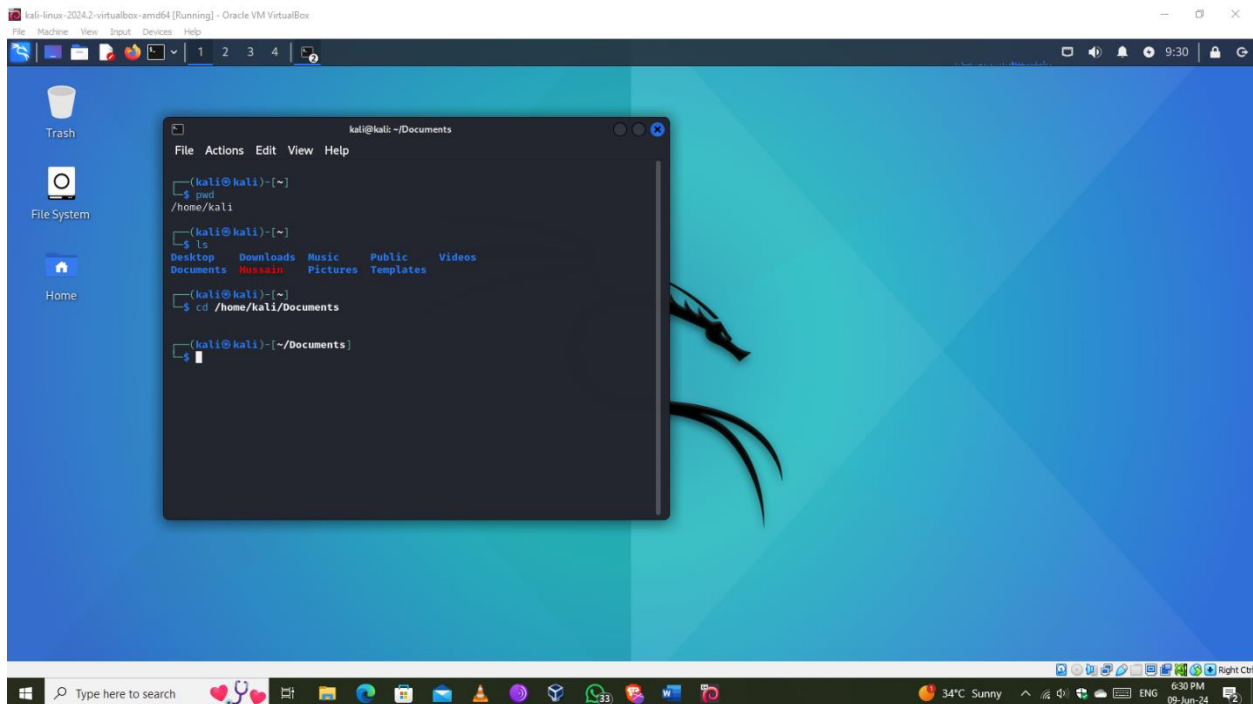
## 2. ls (List):

- **Usage:** ls
- **Explanation:** Lists the files and directories in the current directory.
- **Example:**



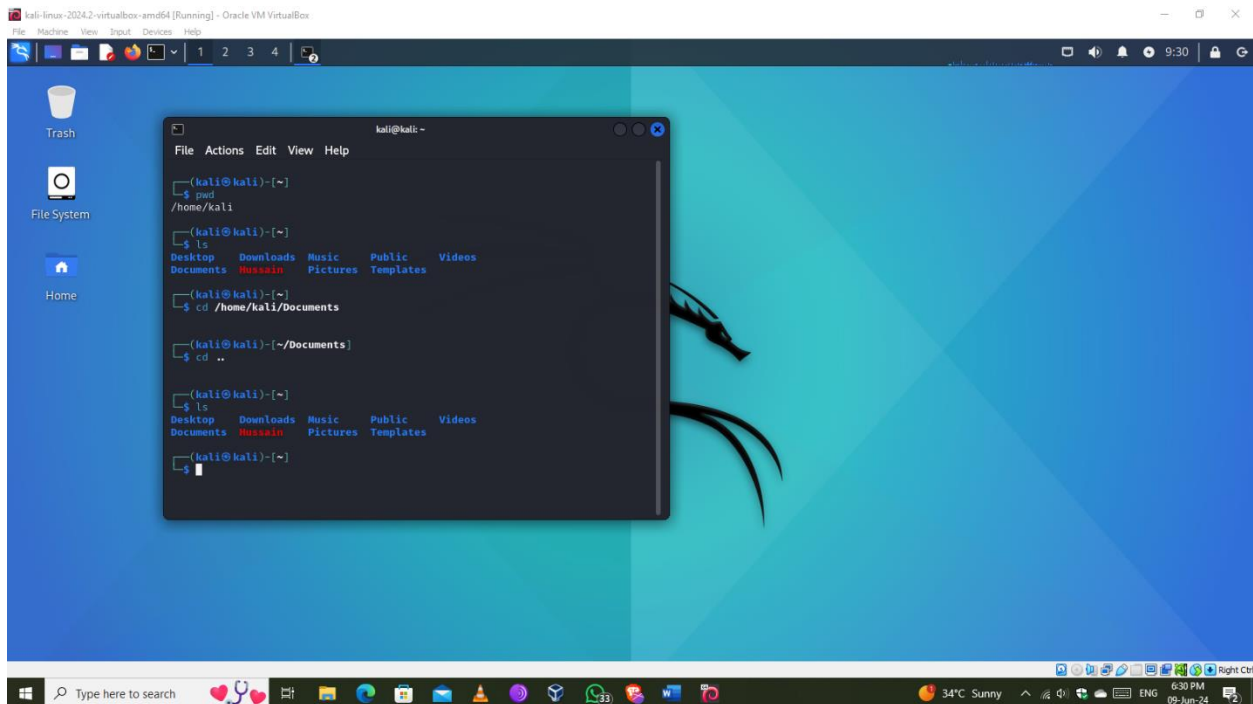
### 3. cd (Change Directory):

- **Usage:** cd [directory\_name]
- **Explanation:** Changes the current directory to the specified directory.
- **Example:**



#### 4. cd/ (Move to Parent Directory):

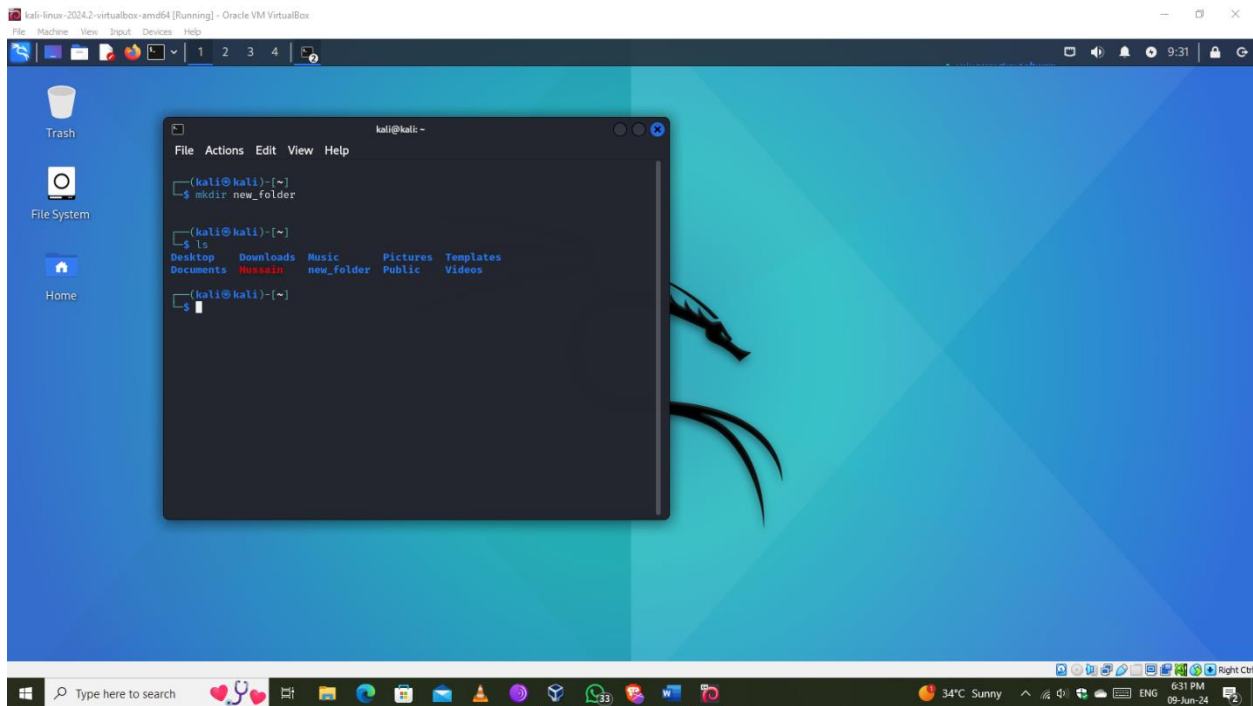
- **Usage:** cd ..
- **Explanation:** Moves to the parent directory of the current directory.
- **Example:**



```
kali@kali: ~  
$ pwd  
/home/kali  
  
kali@kali: ~  
$ ls  
Desktop  Downloads  Music  Public  Videos  
Documents  Hussain  Pictures  Templates  
  
kali@kali: ~  
$ cd /home/kali/Documents  
  
kali@kali: ~/Documents  
$ cd ..  
  
kali@kali: ~  
$ ls  
Desktop  Downloads  Music  Public  Videos  
Documents  Hussain  Pictures  Templates  
  
kali@kali: ~  
$
```

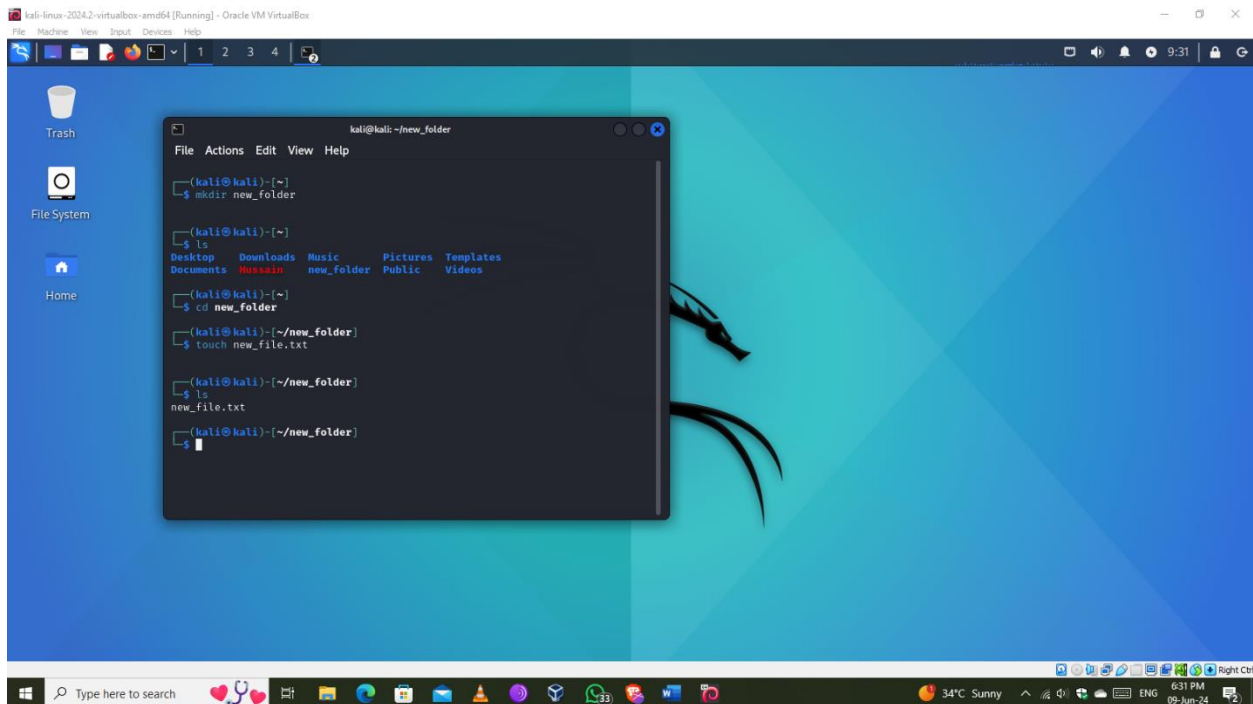
## 5. mkdir (Make Directory):

- **Usage:** mkdir [directory\_name]
- **Explanation:** Creates a new directory with the specified name.
- **Example:**



## 6. touch (Create an Empty File):

- **Usage:** touch [file\_name]
- **Explanation:** Creates an empty file with the specified name. If the file already exists, it updates its timestamp.
- **Example:**



The screenshot shows a Kali Linux desktop environment with a terminal window open. The terminal displays the following commands and output:

```
kali@kali:~/new_folder
$ mkdir new_folder

kali@kali:~/new_folder
$ ls
Desktop  Downloads  Music  Pictures  Templates
Documents  Hussain  new_folder  Public  Videos

kali@kali:~/new_folder
$ cd new_folder

kali@kali:~/new_folder
$ touch new_file.txt

kali@kali:~/new_folder
$ ls
new_file.txt

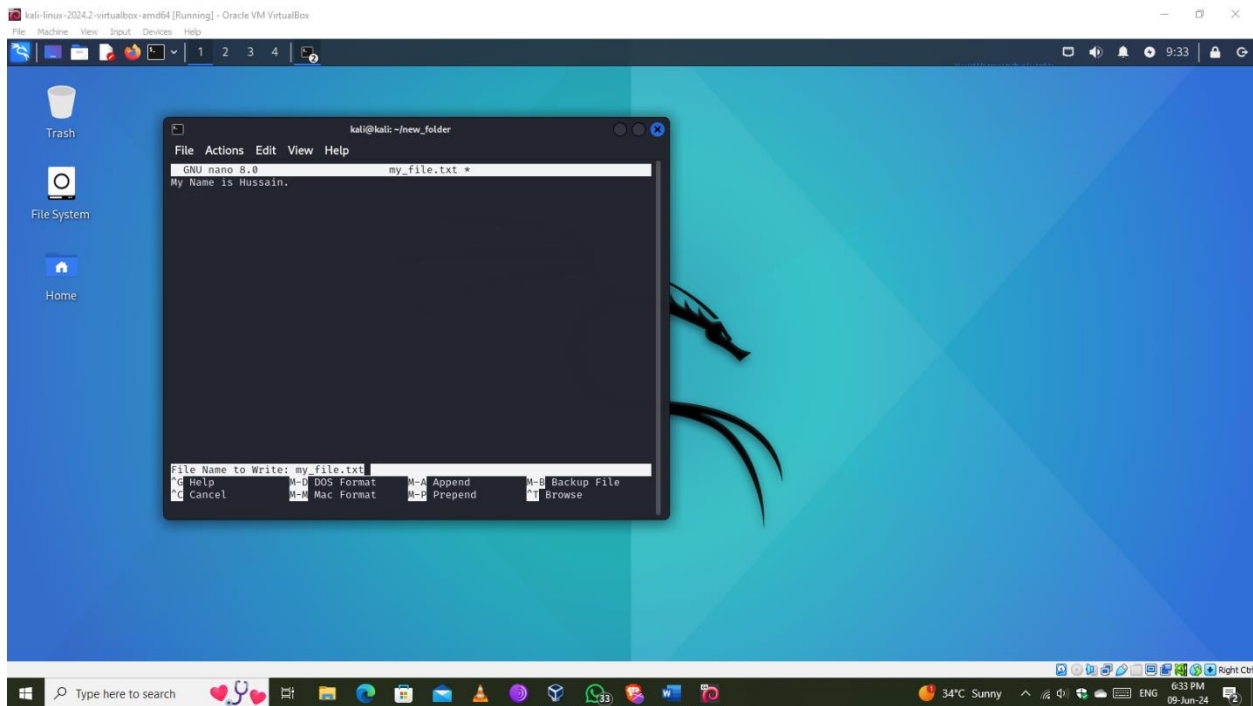
kali@kali:~/new_folder
$
```

The terminal window is titled "kali@kali:~/new\_folder". The desktop background is blue with a dragon logo. The taskbar at the bottom shows various application icons and system status information, including the date and time (6:31 PM, 09-Jun-24).



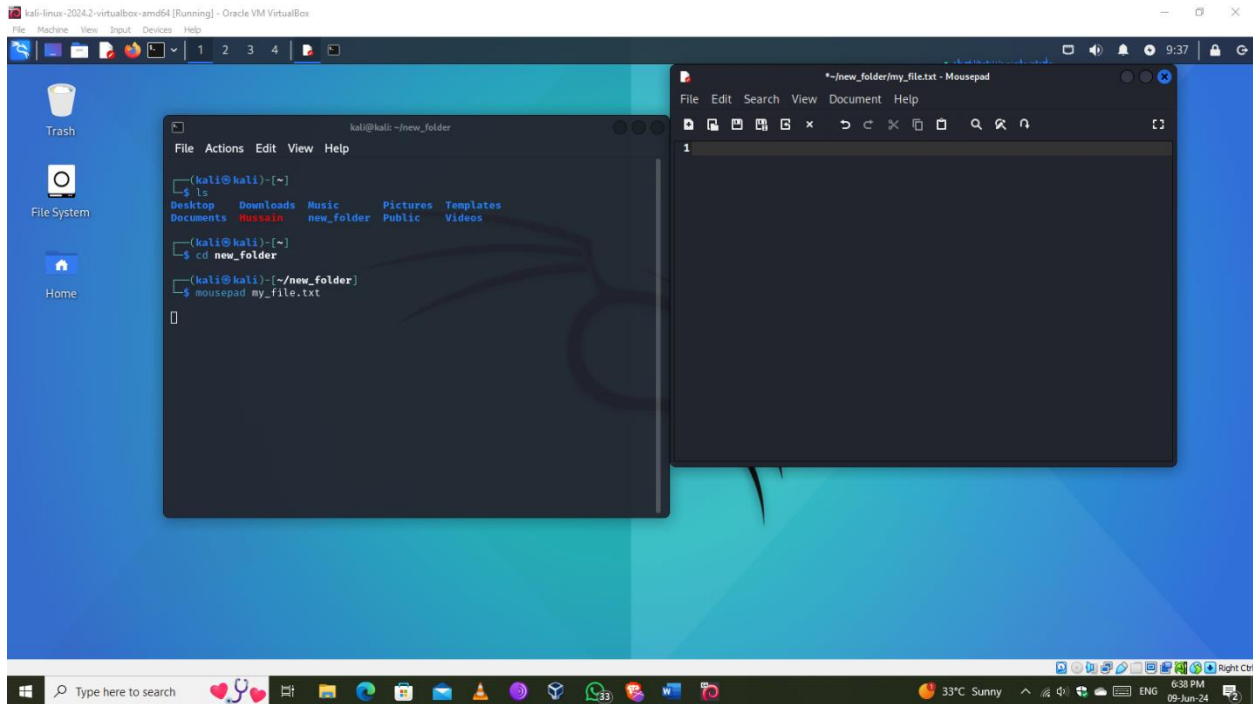
## 7. nano (Text Editor):

- **Usage:** nano [file\_name]
- **Explanation:** Opens the specified file in the nano text editor, or creates a new file if it doesn't exist.
- **Example:** use command **nano my\_file.txt**

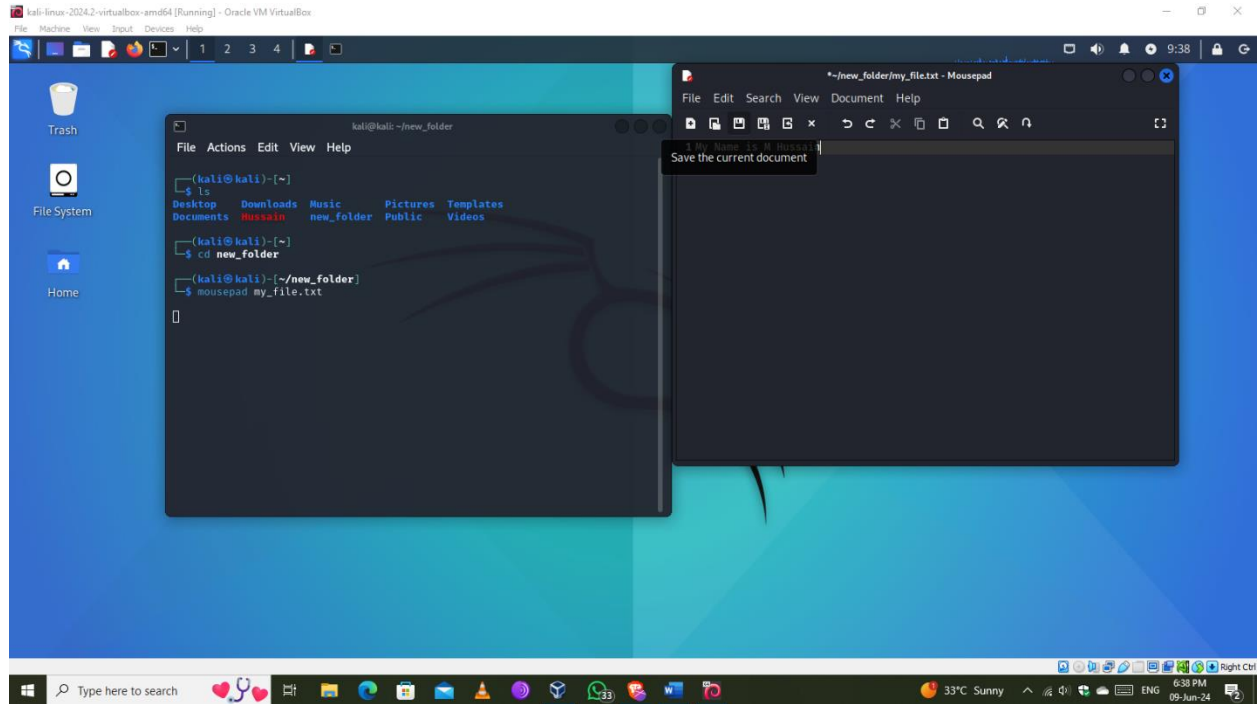


## 8. mousepad (Graphical Text Editor):

- **Usage:** mousepad [file\_name]
- **Explanation:** Opens the specified file in the Mousepad graphical text editor, or creates a new file if it doesn't exist.
- **Example:**

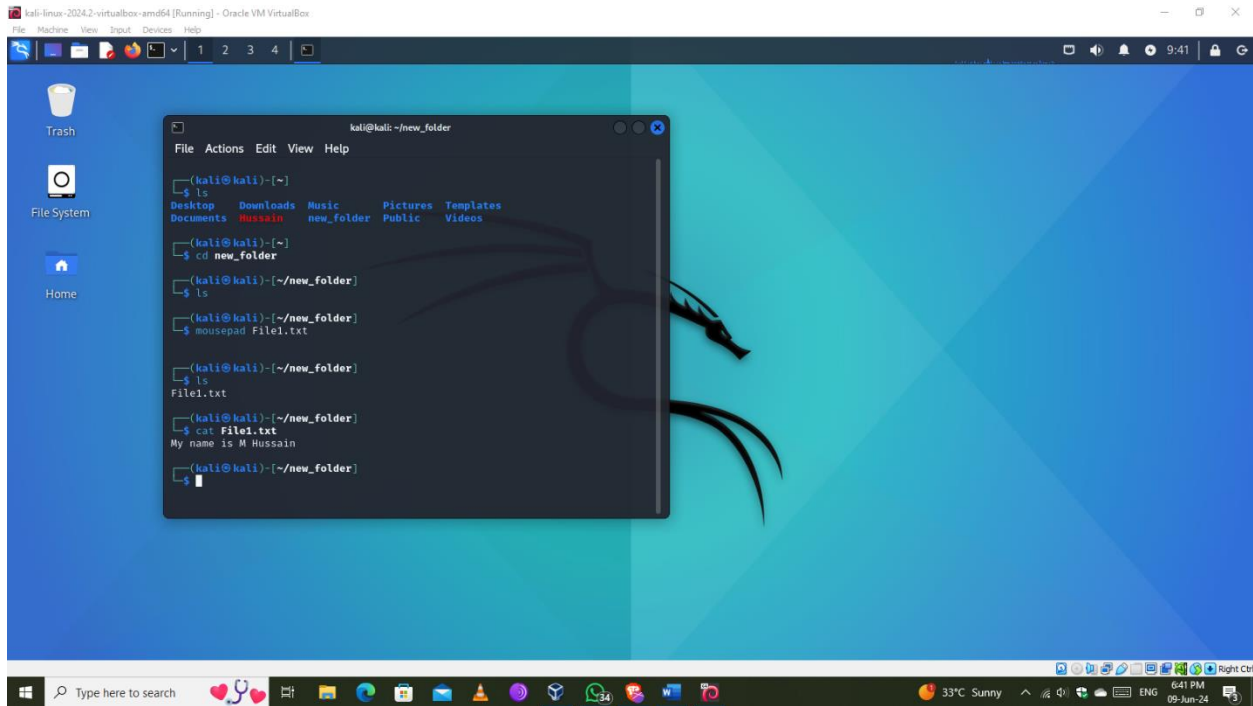


# How to save the changes in File:



## 9. cat (Concatenate and Display Files):

- **Usage:** cat [file\_name]
- **Explanation:** Displays the content of the specified file.
- **Example:**



The screenshot shows a Kali Linux virtual machine desktop. A terminal window is open, displaying the following commands and output:

```
kali@kali: ~/new_folder
File Actions Edit View Help
(kali@kali)~$ ls
Desktop Downloads Music Pictures Templates
Documents Hussain new_folder Public Videos
(kali@kali)~$ cd new_folder
(kali@kali)~/new_folder$ ls
(kali@kali)~/new_folder$ mousepad File1.txt
(kali@kali)~/new_folder$ ls
File1.txt
(kali@kali)~/new_folder$ cat File1.txt
My name is M Hussain
(kali@kali)~/new_folder$
```

The desktop background is blue with a dragon logo. The taskbar at the bottom shows various application icons and system status information: 33°C Sunny, 6:41 PM, 09-Jun-24.

These commands are fundamental and essential for navigating and managing files and directories in a Linux environment.