



NOTRE DAME UNIVERSITY

BANGLADESH

CSE-3206 Lab Report-01

Course Title: Operating System Lab

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Lab Task Topic : Familiarization of Linux Commands

Submitted to:

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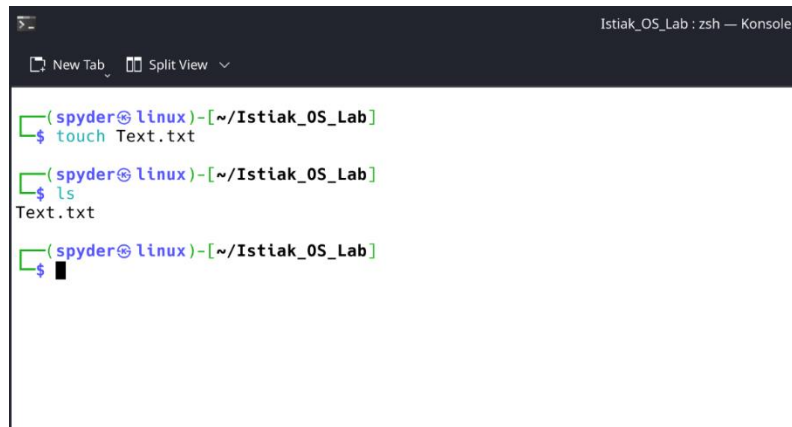
❑ Commands :

1.1 Creating Files using terminal

Syntax : touch file_name

Command : \$ **touch** Text.txt

Sample Input & Output :

A terminal window titled 'Istiak_OS_Lab : zsh — Konsole' with a dark background. It shows three lines of command execution: 1. The prompt '(spyder@linux)-[~/Istiak_OS_Lab]' followed by '\$ touch Text.txt'. 2. The prompt '(spyder@linux)-[~/Istiak_OS_Lab]' followed by '\$ ls', with the output 'Text.txt' displayed on the next line. 3. The prompt '(spyder@linux)-[~/Istiak_OS_Lab]' followed by '\$' and a cursor. The terminal interface includes a top bar with 'New Tab' and 'Split View' options.

```
(spyder@linux)-[~/Istiak_OS_Lab]
$ touch Text.txt

(spyder@linux)-[~/Istiak_OS_Lab]
$ ls
Text.txt

(spyder@linux)-[~/Istiak_OS_Lab]
$
```

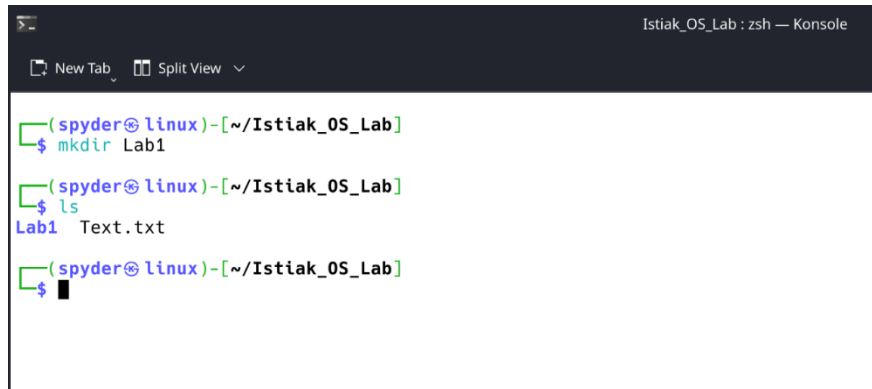
Fig : 1 creating File

1.2 Creating Folder using terminal

Syntax : `mkdir directory_name`

Command : `$ mkdir Lab1`

Sample Input & Output :

A terminal window titled 'Istiak_OS_Lab : zsh — Konsole' with a dark background. The prompt is '(spyder@linux)-[~/Istiak_OS_Lab]'. The user enters '\$ mkdir Lab1'. The prompt changes to '(spyder@linux)-[~/Istiak_OS_Lab]'. The user enters '\$ ls'. The output is 'Lab1 Text.txt'. The prompt returns to '(spyder@linux)-[~/Istiak_OS_Lab]'. The user enters '\$' and the cursor is on a new line.

```
(spyder@linux)-[~/Istiak_OS_Lab]
$ mkdir Lab1

(spyder@linux)-[~/Istiak_OS_Lab]
$ ls
Lab1 Text.txt

(spyder@linux)-[~/Istiak_OS_Lab]
$
```

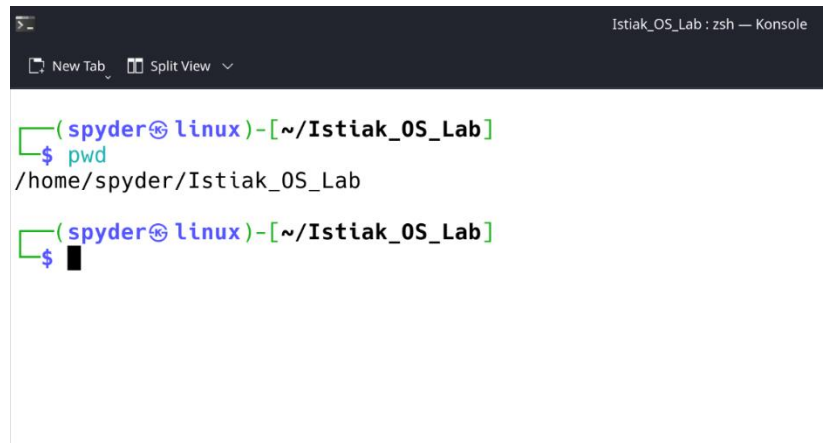
Fig : 2 creating directory

1.3 Print Current Directory using terminal

Syntax : pwd

Command : **\$ pwd**

Sample Input & Output :



```
Istiak_OS_Lab : zsh — Konsole
New Tab Split View
(spyder@linux)-[~/Istiak_OS_Lab]
$ pwd
/home/spyder/Istiak_OS_Lab
(spyder@linux)-[~/Istiak_OS_Lab]
$
```

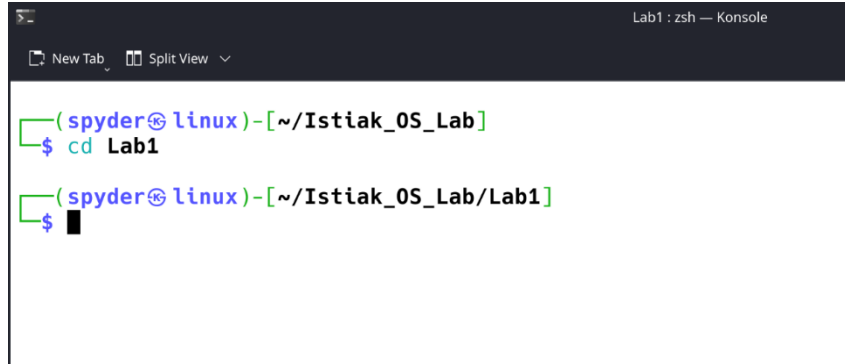
Fig : 3 Current Directory

1.4 Change Directory using terminal

Syntax : `cd directory_name`

Command : `$ cd Lab1`

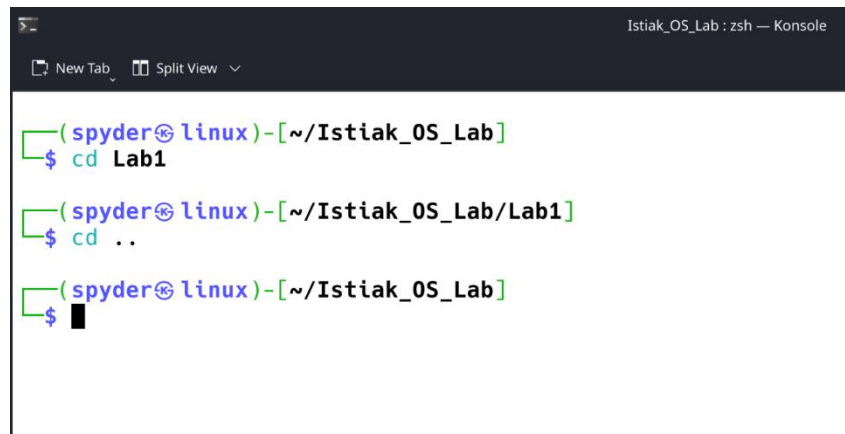
Sample Input & Output :

A terminal window titled "Lab1 : zsh — Konsole" with a dark background. It shows two commands being executed. The first command is `(spyder@linux)-[~/Istiak_OS_Lab]` followed by `$ cd Lab1`. The second command is `(spyder@linux)-[~/Istiak_OS_Lab/Lab1]` followed by `$` and a cursor. The window has a menu bar with "New Tab" and "Split View".

```
(spyder@linux)-[~/Istiak_OS_Lab]
$ cd Lab1

(spyder@linux)-[~/Istiak_OS_Lab/Lab1]
$
```

Fig : 4.1 Change Directory

A terminal window titled "Istiak_OS_Lab : zsh — Konsole" with a dark background. It shows three commands being executed. The first command is `(spyder@linux)-[~/Istiak_OS_Lab]` followed by `$ cd Lab1`. The second command is `(spyder@linux)-[~/Istiak_OS_Lab/Lab1]` followed by `$ cd ..`. The third command is `(spyder@linux)-[~/Istiak_OS_Lab]` followed by `$` and a cursor. The window has a menu bar with "New Tab" and "Split View".

```
(spyder@linux)-[~/Istiak_OS_Lab]
$ cd Lab1

(spyder@linux)-[~/Istiak_OS_Lab/Lab1]
$ cd ..

(spyder@linux)-[~/Istiak_OS_Lab]
$
```

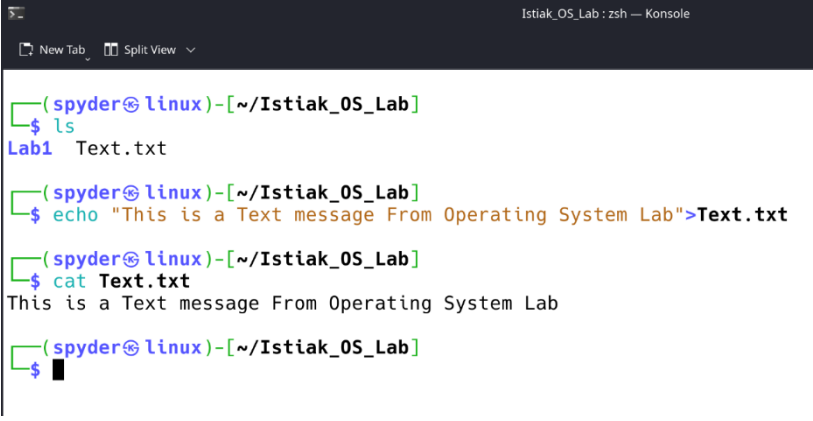
Fig : 4.2 Change Directory

1.5 Print Content using terminal

Syntax : `cat file_name`

Command : `$ cat Text.txt`

Sample Input & Output :



```
Istiak_OS_Lab : zsh — Konsole
New Tab Split View
(spyder@linux)-[~/Istiak_OS_Lab]
$ ls
Lab1 Text.txt
(spyder@linux)-[~/Istiak_OS_Lab]
$ echo "This is a Text message From Operating System Lab">Text.txt
(spyder@linux)-[~/Istiak_OS_Lab]
$ cat Text.txt
This is a Text message From Operating System Lab
(spyder@linux)-[~/Istiak_OS_Lab]
$
```

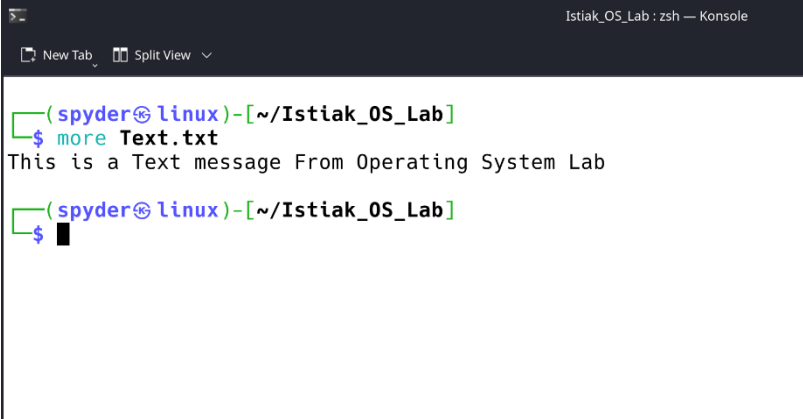
Fig 5 : cat

1.6 Print Content using terminal

Syntax : `more file_name`

Command : `$ more Text.txt`

Sample Input & Output :



```
Istiak_OS_Lab : zsh — Konsole
New Tab Split View
(spyder@linux)-[~/Istiak_OS_Lab]
$ more Text.txt
This is a Text message From Operating System Lab
(spyder@linux)-[~/Istiak_OS_Lab]
$
```

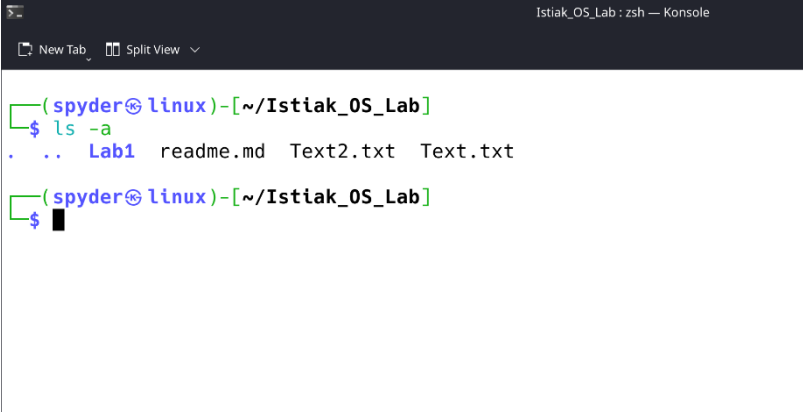
Fig 6 : using more

1.7 Print List of all special dot files in a directory.

Syntax : `ls -a`

Command : `$ ls -a`

Sample Input & Output :



```
Istiak_OS_Lab : zsh — Konsole
New Tab Split View
(spyder@linux)-[~/Istiak_OS_Lab]
$ ls -a
.  ..  Lab1  readme.md  Text2.txt  Text.txt
(spyder@linux)-[~/Istiak_OS_Lab]
$
```

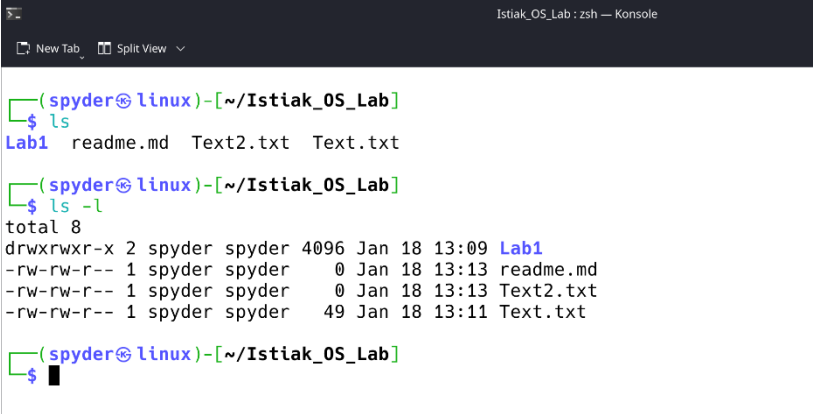
Fig 7 : list

1.8 Print Long List of files in a directory.

Syntax : `ls -l`

Command : `$ ls -l`

Sample Input & Output :



```
Istiak_OS_Lab : zsh — Konsole
New Tab Split View
(spyder@linux)-[~/Istiak_OS_Lab]
$ ls
Lab1  readme.md  Text2.txt  Text.txt
(spyder@linux)-[~/Istiak_OS_Lab]
$ ls -l
total 8
drwxrwxr-x 2 spyder spyder 4096 Jan 18 13:09 Lab1
-rw-rw-r-- 1 spyder spyder   0 Jan 18 13:13 readme.md
-rw-rw-r-- 1 spyder spyder   0 Jan 18 13:13 Text2.txt
-rw-rw-r-- 1 spyder spyder  49 Jan 18 13:11 Text.txt
(spyder@linux)-[~/Istiak_OS_Lab]
$
```

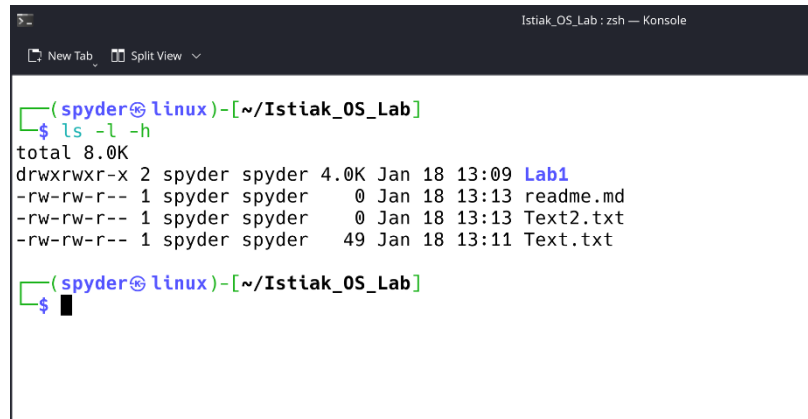
Fig 8 : list with permission

1.9 Print size of files in human readable form of a directory.

Syntax : `ls -l -h`

Command : `$ ls -l -h`

Sample Input & Output :

A terminal window titled 'Istiak_OS_Lab : zsh — Konsole' with a dark background. The prompt is '(spyder@linux)-[~/Istiak_OS_Lab]'. The user enters the command '\$ ls -l -h'. The output shows the total size of the directory as 8.0K, followed by a list of files with their permissions, owner, group, size, date, and time. The files are 'Lab1' (4.0K), 'readme.md' (0 bytes), 'Text2.txt' (0 bytes), and 'Text.txt' (49 bytes).

```
(spyder@linux)-[~/Istiak_OS_Lab]
$ ls -l -h
total 8.0K
drwxrwxr-x 2 spyder spyder 4.0K Jan 18 13:09 Lab1
-rw-rw-r-- 1 spyder spyder  0 Jan 18 13:13 readme.md
-rw-rw-r-- 1 spyder spyder  0 Jan 18 13:13 Text2.txt
-rw-rw-r-- 1 spyder spyder 49 Jan 18 13:11 Text.txt
(spyder@linux)-[~/Istiak_OS_Lab]
$
```

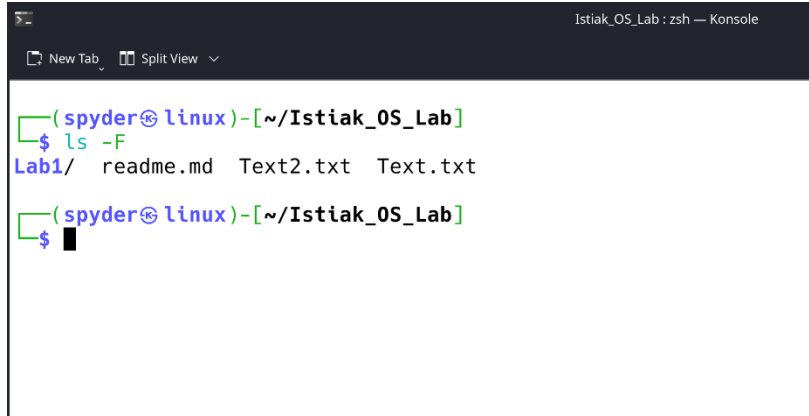
Fig 9 : list with size

1.10 Mark all the Executable files & Folder form of a directory.

Syntax : `ls -F`

Command : `$ ls -F`

Sample Input & Output :



```
Istiak_OS_Lab : zsh — Konsole
New Tab Split View
(spyder@linux)-[~/Istiak_OS_Lab]
$ ls -F
Lab1/  readme.md  Text2.txt  Text.txt
(spyder@linux)-[~/Istiak_OS_Lab]
$
```

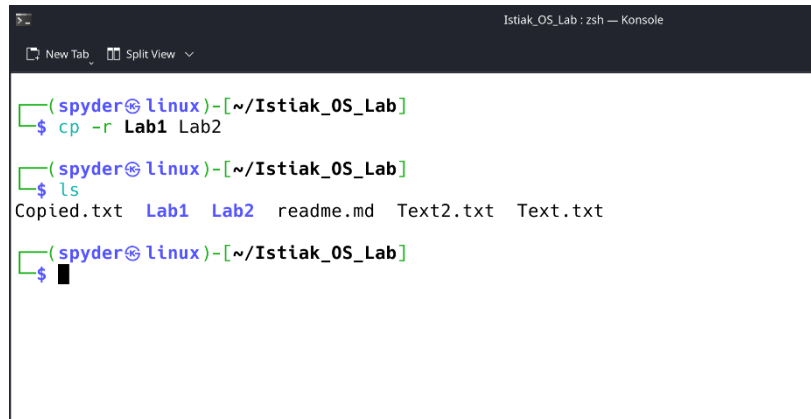
Fig 10 : list all files

1.11 Copy files & Directory using terminal.

Syntax : `cp [option] file1 file2`

Command : `$ cp Text.txt Copied.txt`

Sample Input & Output :

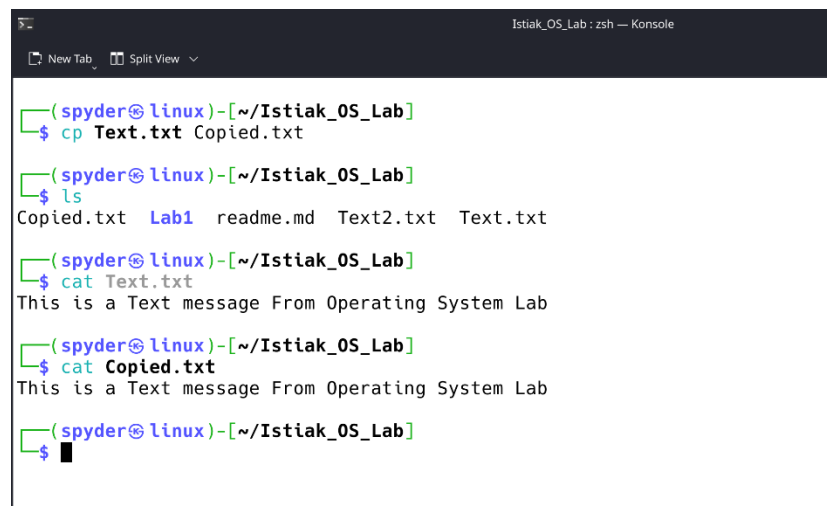
A terminal window titled 'Istiak_OS_Lab : zsh — Konsole' with a dark background. It shows a sequence of commands and their outputs. The first command is 'cp -r Lab1 Lab2'. The second command is 'ls', which outputs 'Copied.txt Lab1 Lab2 readme.md Text2.txt Text.txt'. The prompt '\$' is followed by a cursor.

```
(spyder@linux)-[~/Istiak_OS_Lab]
$ cp -r Lab1 Lab2

(spyder@linux)-[~/Istiak_OS_Lab]
$ ls
Copied.txt Lab1 Lab2 readme.md Text2.txt Text.txt

(spyder@linux)-[~/Istiak_OS_Lab]
$
```

Fig 11.1 : Copy file

A terminal window titled 'Istiak_OS_Lab : zsh — Konsole' with a dark background. It shows a sequence of commands and their outputs. The first command is 'cp Text.txt Copied.txt'. The second command is 'ls', which outputs 'Copied.txt Lab1 readme.md Text2.txt Text.txt'. The third command is 'cat Text.txt', which outputs 'This is a Text message From Operating System Lab'. The fourth command is 'cat Copied.txt', which also outputs 'This is a Text message From Operating System Lab'. The prompt '\$' is followed by a cursor.

```
(spyder@linux)-[~/Istiak_OS_Lab]
$ cp Text.txt Copied.txt

(spyder@linux)-[~/Istiak_OS_Lab]
$ ls
Copied.txt Lab1 readme.md Text2.txt Text.txt

(spyder@linux)-[~/Istiak_OS_Lab]
$ cat Text.txt
This is a Text message From Operating System Lab

(spyder@linux)-[~/Istiak_OS_Lab]
$ cat Copied.txt
This is a Text message From Operating System Lab

(spyder@linux)-[~/Istiak_OS_Lab]
$
```

Figure 11.2 : Copy folder

1.12 Remove or Delete files & Folder Using terminal.

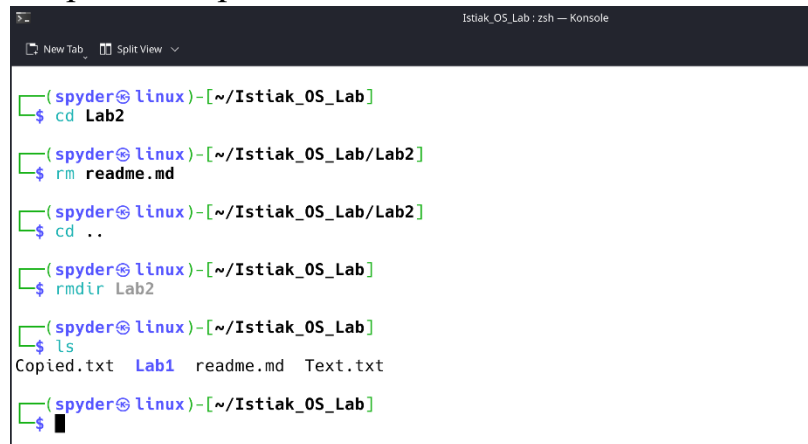
Syntax : `rm file_name` //removing a file

Syntax : `rmdir directory_name` //removing a folder

Command : `$ rm Text2.txt`

Command : `$ rmdir Text2.txt`

Sample Input & Output :

A terminal window titled 'Istiak_OS_Lab : zsh — Konsole' with a dark background. It shows a series of commands and their outputs. The user navigates to a directory named 'Lab2', removes a file named 'readme.md', returns to the parent directory, removes the 'Lab2' directory, and finally lists the contents of the current directory, which are 'Copied.txt', 'Lab1', 'readme.md', and 'Text.txt'.

```
(spyder@linux)-[~/Istiak_OS_Lab]
$ cd Lab2

(spyder@linux)-[~/Istiak_OS_Lab/Lab2]
$ rm readme.md

(spyder@linux)-[~/Istiak_OS_Lab/Lab2]
$ cd ..

(spyder@linux)-[~/Istiak_OS_Lab]
$ rmdir Lab2

(spyder@linux)-[~/Istiak_OS_Lab]
$ ls
Copied.txt  Lab1  readme.md  Text.txt

(spyder@linux)-[~/Istiak_OS_Lab]
$
```

Fig 12 : remove files & folder

1.13 Clear the contents of the terminal.

Syntax : `clear`

Command : `$ clear`

Sample Input & Output :



```
(spyder@ linux)-[~/Istiak_OS_Lab]
$ cd Lab2

(spyder@ linux)-[~/Istiak_OS_Lab/Lab2]
$ rm readme.md


(spyder@ linux)-[~/Istiak_OS_Lab/Lab2]
$ cd ..

(spyder@ linux)-[~/Istiak_OS_Lab]
$ rmdir Lab2

(spyder@ linux)-[~/Istiak_OS_Lab]
$ ls
Copied.txt  Lab1  readme.md  Text.txt

(spyder@ linux)-[~/Istiak_OS_Lab]
$ clear
```

Fig 13.1 : clear terminal



```
(spyder@ linux)-[~/Istiak_OS_Lab]
$
```

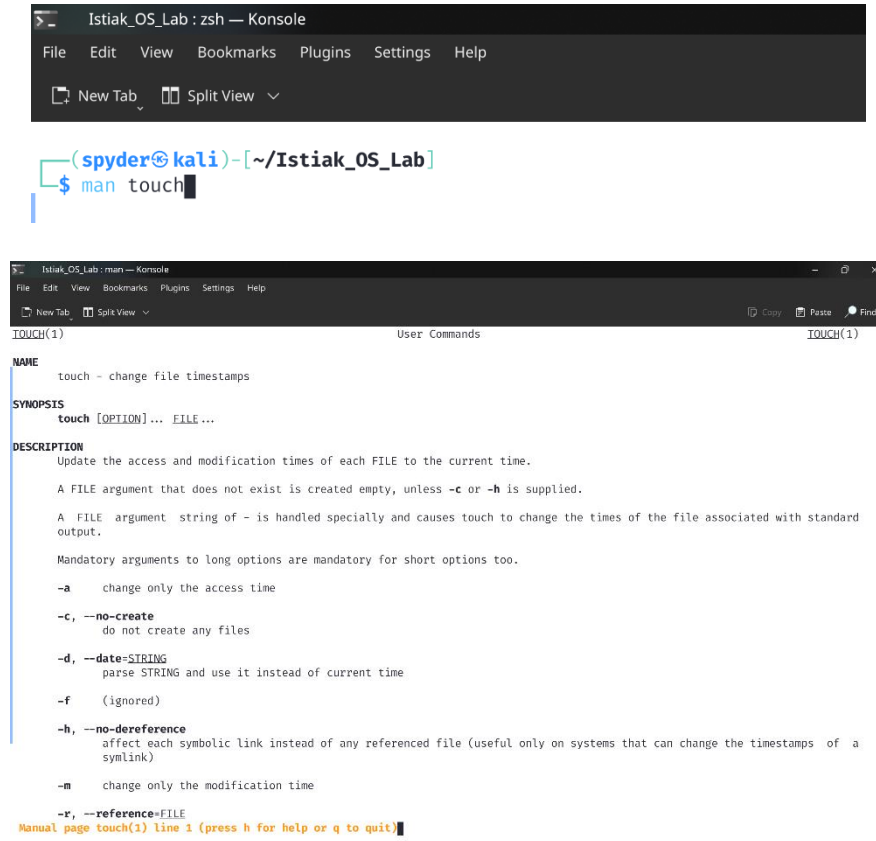
Fig 13.2 : cleared terminal

1.14 View manual & help of specific command.

Syntax : `man Command_name`

Command : `$ man touch`

Sample Input & Output :



The first screenshot shows a terminal window titled 'Istiak_OS_Lab : zsh — Konsole'. The prompt is '(spyder@kali)~[~/Istiak_OS_Lab]' and the command '\$ man touch' has been entered. The second screenshot shows the output of the 'man touch' command. The window title is 'Istiak_OS_Lab : man — Konsole'. The output is displayed in a scrollable area with the following content:

```
TOUCH(1)                                User Commands                                TOUCH(1)

NAME
    touch - change file timestamps

SYNOPSIS
    touch [OPTION]... FILE...

DESCRIPTION
    Update the access and modification times of each FILE to the current time.

    A FILE argument that does not exist is created empty, unless -c or -h is supplied.

    A FILE argument string of - is handled specially and causes touch to change the times of the file associated with standard output.

    Mandatory arguments to long options are mandatory for short options too.

    -a      change only the access time

    -c, --no-create
            do not create any files

    -d, --date=STRING
            parse STRING and use it instead of current time

    -f      (ignored)

    -h, --no-dereference
            affect each symbolic link instead of any referenced file (useful only on systems that can change the timestamps of a symlink)

    -m      change only the modification time

    -r, --reference=FILE
            use this file's times instead of the current time

Manual page touch(1) line 1 (press h for help or q to quit)
```

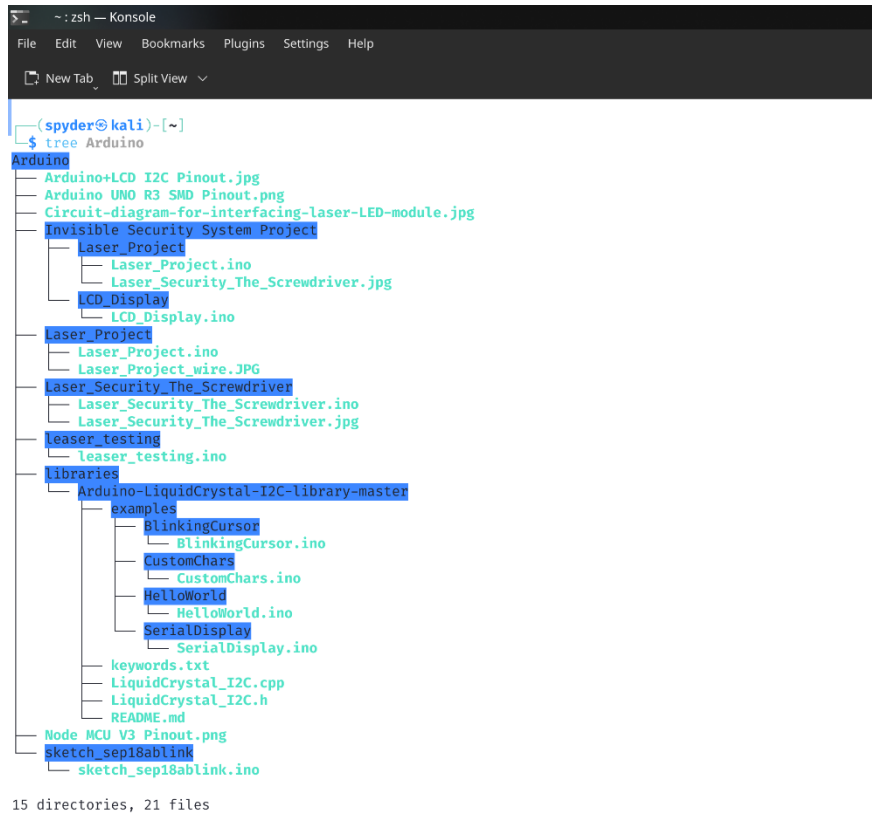
Fig 14 : manual

1.15 Print list or display the contents of a directory in a tree like format.

Syntax : `tree directory_name`

Command : `$ tree Arduino`

Sample Input & Output :



```
(spyder@kali)-[~]
$ tree Arduino
Arduino
├── Arduino+LCD I2C Pinout.jpg
├── Arduino UNO R3 SMD Pinout.png
├── Circuit-diagram-for-interfacing-laser-LED-module.jpg
├── Invisible Security System Project
│   ├── Laser Project
│   │   ├── Laser_Project.ino
│   │   └── Laser_Security_The_Screwdriver.jpg
│   └── LCD Display
│       └── LCD_Display.ino
├── Laser Project
│   ├── Laser_Project.ino
│   └── Laser_Project_wire.JPG
├── Laser_Security_The_Screwdriver
│   ├── Laser_Security_The_Screwdriver.ino
│   └── Laser_Security_The_Screwdriver.jpg
├── leaser_testing
│   └── leaser_testing.ino
├── libraries
│   └── Arduino-LiquidCrystal-I2C-library-master
│       ├── examples
│       │   ├── BlinkingCursor
│       │   │   └── BlinkingCursor.ino
│       │   ├── CustomChars
│       │   │   └── CustomChars.ino
│       │   ├── HelloWorld
│       │   │   └── HelloWorld.ino
│       │   └── SerialDisplay
│       │       └── SerialDisplay.ino
│       ├── keywords.txt
│       ├── LiquidCrystal_I2C.cpp
│       ├── LiquidCrystal_I2C.h
│       └── README.md
├── Node MCU V3 Pinout.png
├── sketch_sep18ablink
│   └── sketch_sep18ablink.ino
└── 15 directories, 21 files
```

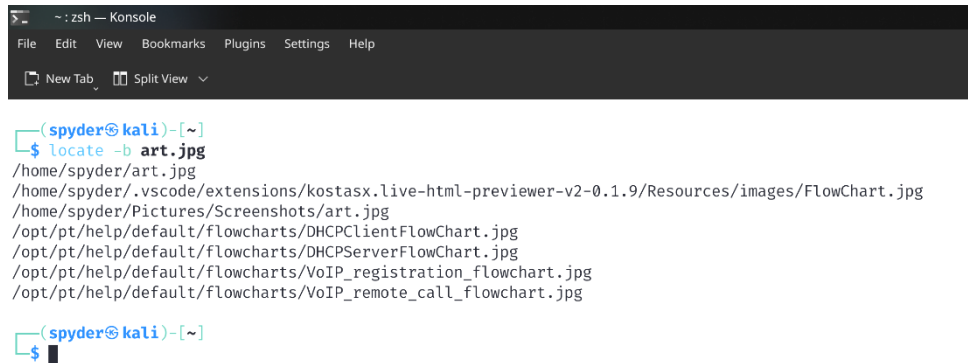
Fig 15 : tree

1.16 Find files using terminal.

Syntax : `locate [options] file_name`

Command : `$ locate -b art.jpg`

Sample Input & Output :



```
~ : zsh — Konsole
File Edit View Bookmarks Plugins Settings Help
New Tab Split View

(spyder@kali)-[~]
$ locate -b art.jpg
/home/spyder/art.jpg
/home/spyder/.vscode/extensions/kostasx.live-html-previewer-v2-0.1.9/Resources/images/FlowChart.jpg
/home/spyder/Pictures/Screenshots/art.jpg
/opt/pt/help/default/flowcharts/DHCPClientFlowChart.jpg
/opt/pt/help/default/flowcharts/DHCPServerFlowChart.jpg
/opt/pt/help/default/flowcharts/VoIP_registration_flowchart.jpg
/opt/pt/help/default/flowcharts/VoIP_remote_call_flowchart.jpg

(spyder@kali)-[~]
$
```

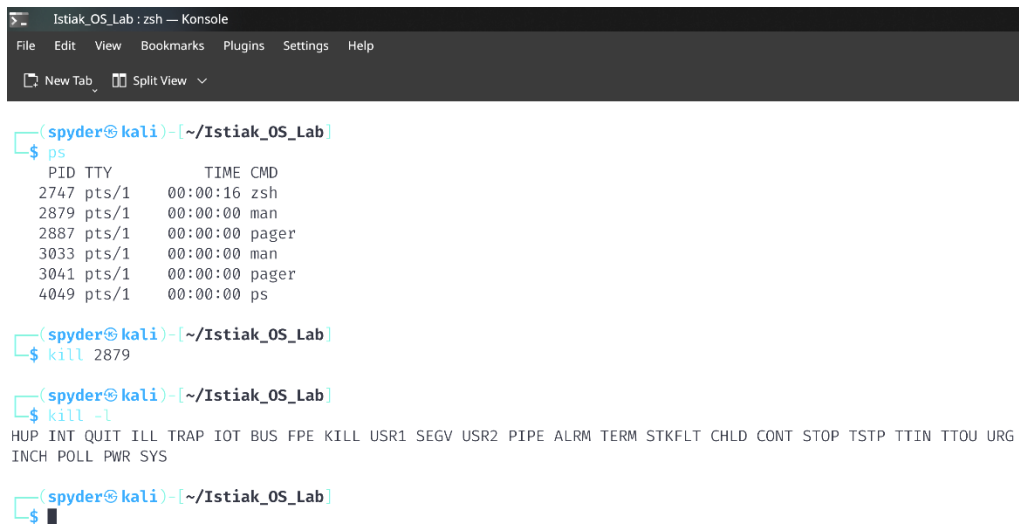
Fig 16 : locate

1.17 Terminate a Process manually using terminal.

Syntax : kill [option] pid

Command : **\$ kill 2879**

Sample Input & Output :

A terminal window titled 'Istiak_OS_Lab : zsh — Konsole' with a menu bar (File, Edit, View, Bookmarks, Plugins, Settings, Help) and a toolbar (New Tab, Split View). The terminal shows the following commands and output:

```
(spyder@kali)~[~/Istiak_OS_Lab]
$ ps
  PID TTY          TIME CMD
 2747 pts/1        00:00:16 zsh
 2879 pts/1        00:00:00 man
 2887 pts/1        00:00:00 pager
 3033 pts/1        00:00:00 man
 3041 pts/1        00:00:00 pager
 4049 pts/1        00:00:00 ps

(spyder@kali)~[~/Istiak_OS_Lab]
$ kill 2879

(spyder@kali)~[~/Istiak_OS_Lab]
$ kill -l
HUP INT QUIT ILL TRAP IOT BUS FPE KILL USR1 SEGV USR2 PIPE ALRM TERM STKFLT CHLD CONT STOP TSTP TTIN TTOU URG
INCH POLL PWR SYS

(spyder@kali)~[~/Istiak_OS_Lab]
$
```

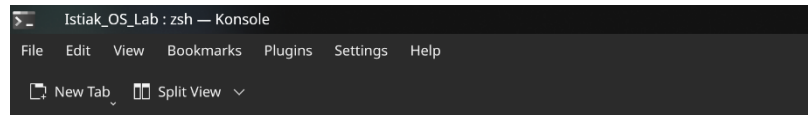
Fig 17 : killing process

1.18 Print Content of a file one screenful at a time using terminal

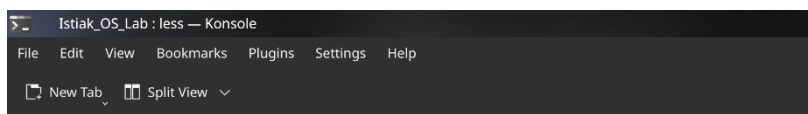
Syntax : `less file_name`

Command : `$ less Text.txt`

Sample Input & Output :



```
(spyder@kali)~[~/Istiak_OS_Lab]
$ less Text.txt
```



```
#include <stdio.h>

int main(){

print("Hello World.. ");

return 0;

}
~
~
~
~
```

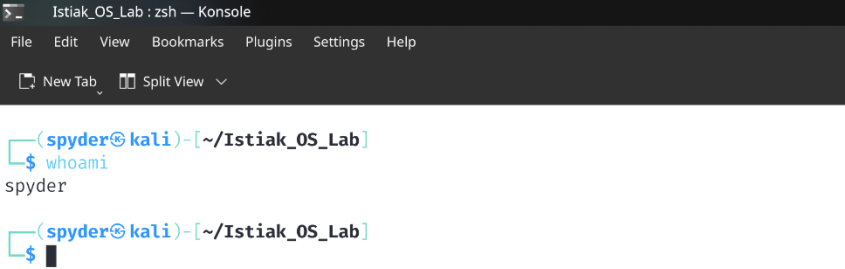
Fig 18 : less view

1.19 Display username or who logged in.

Syntax : who

Syntax : whoami

Sample Input & Output :



```
Istiak_OS_Lab : zsh — Konsole
File Edit View Bookmarks Plugins Settings Help
New Tab Split View
(spyder@kali)~[/Istiak_OS_Lab]
$ whoami
spyder
(spyder@kali)~[/Istiak_OS_Lab]
$
```

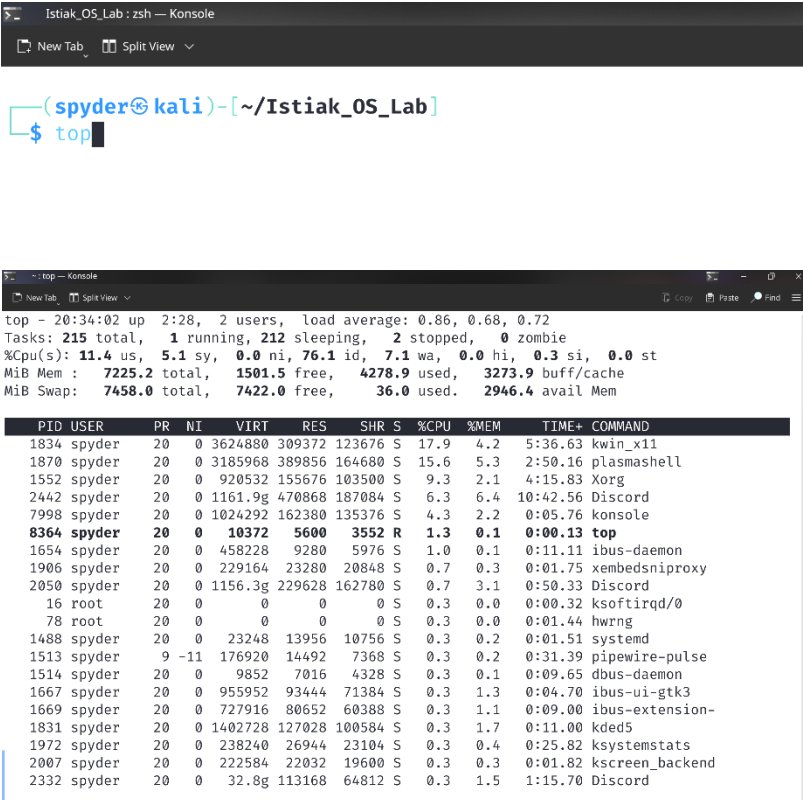
Fig 19 : username

1.20 Print the resource being used in system using terminal

Syntax : top

Command : **\$ top**

Sample Input & Output :



```
Istiak_OS_Lab : zsh — Konsole
New Tab Split View

(spyder@kali)~[~/Istiak_OS_Lab]
$ top
```

```
top - 20:34:02 up 2:28, 2 users, load average: 0.86, 0.68, 0.72
Tasks: 215 total, 1 running, 212 sleeping, 2 stopped, 0 zombie
%Cpu(s): 11.4 us, 5.1 sy, 0.0 ni, 76.1 id, 7.1 wa, 0.0 hi, 0.3 si, 0.0 st
MiB Mem : 7225.2 total, 1501.5 free, 4278.9 used, 3273.9 buff/cache
MiB Swap: 7458.0 total, 7422.0 free, 36.0 used, 2946.4 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1834	spyder	20	0	3624880	309372	123676	S	17.9	4.2	5:36.63	kwin_x11
1870	spyder	20	0	3185968	389856	164680	S	15.6	5.3	2:50.16	plasmashell
1552	spyder	20	0	920532	155676	103500	S	9.3	2.1	4:15.83	Xorg
2442	spyder	20	0	1161.9g	470868	187084	S	6.3	6.4	10:42.56	Discord
7998	spyder	20	0	1024292	162380	135376	S	4.3	2.2	0:05.76	konsole
8364	spyder	20	0	10372	5600	3552	R	1.3	0.1	0:00.13	top
1654	spyder	20	0	458228	9280	5976	S	1.0	0.1	0:11.11	ibus-daemon
1906	spyder	20	0	229164	23280	20848	S	0.7	0.3	0:01.75	xembedsniproxy
2050	spyder	20	0	1156.3g	229628	162780	S	0.7	3.1	0:50.33	Discord
16	root	20	0	0	0	0	S	0.3	0.0	0:00.32	ksoftirqd/0
78	root	20	0	0	0	0	S	0.3	0.0	0:01.44	hwng
1488	spyder	20	0	23248	13956	10756	S	0.3	0.2	0:01.51	systemd
1513	spyder	9	-11	176920	14492	7368	S	0.3	0.2	0:31.39	pipewire-pulse
1514	spyder	20	0	9852	7016	4328	S	0.3	0.1	0:09.65	dbus-daemon
1667	spyder	20	0	955952	93444	71384	S	0.3	1.3	0:04.70	ibus-ui-gtk3
1669	spyder	20	0	727916	80652	60388	S	0.3	1.1	0:09.00	ibus-extension-
1831	spyder	20	0	1402728	127028	100584	S	0.3	1.7	0:11.00	kded5
1972	spyder	20	0	238240	26944	23104	S	0.3	0.4	0:25.82	ksystemstats
2007	spyder	20	0	222584	22032	19600	S	0.3	0.3	0:01.82	kscreen_backend
2332	spyder	20	0	32.8g	113168	64812	S	0.3	1.5	1:15.70	Discord

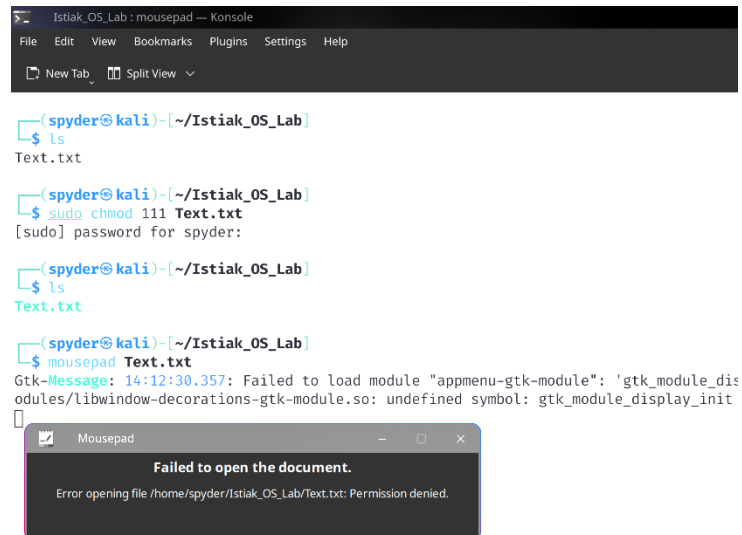
Fig 20 : top

1.21 Modify file access permissions using terminal.

Syntax : `chmod [options] permission_filename`

Command : `$ chmod 111 Text.txt`

Sample Input & Output :



```
IstiaK_OS_Lab : mousepad — Konsole
File Edit View Bookmarks Plugins Settings Help
New Tab Split View

(spyder@kali)~[/IstiaK_OS_Lab]
$ ls
Text.txt

(spyder@kali)~[/IstiaK_OS_Lab]
$ sudo chmod 111 Text.txt
[sudo] password for spyder:

(spyder@kali)~[/IstiaK_OS_Lab]
$ ls
Text.txt

(spyder@kali)~[/IstiaK_OS_Lab]
$ mousepad Text.txt
Gtk-Message: 14:12:30.357: Failed to load module "appmenu-gtk-module": 'gtk_module_dis
odules/libwindow-decorations-gtk-module.so: undefined symbol: gtk_module_display_init

[
[Mousepad]
Failed to open the document.
Error opening file /home/spyder/IstiaK_OS_Lab/Text.txt: Permission denied.
```

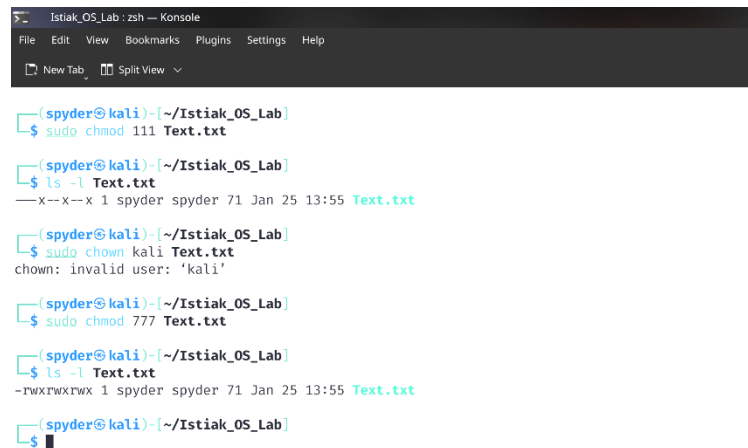
Fig 21 : change permission

1.22 Change the user and / or group ownership of a given file, directory or symbolic link using terminal.

Syntax : `chown [options] user [group] file_name`

Command : `$ chown kali Text.txt`

Sample Input & Output :

A terminal window titled 'Istiak_OS_Lab : zsh -- Konsole' showing a series of commands and their outputs. The user is in the directory ~/Istiak_OS_Lab. The commands and outputs are as follows:

```
(spyder@kali)-[~/Istiak_OS_Lab]
$ sudo chmod 111 Text.txt

(spyder@kali)-[~/Istiak_OS_Lab]
$ ls -l Text.txt
--x--x--x 1 spyder spyder 71 Jan 25 13:55 Text.txt

(spyder@kali)-[~/Istiak_OS_Lab]
$ sudo chown kali Text.txt
chown: invalid user: 'kali'

(spyder@kali)-[~/Istiak_OS_Lab]
$ sudo chmod 777 Text.txt

(spyder@kali)-[~/Istiak_OS_Lab]
$ ls -l Text.txt
-rwxrwxrwx 1 spyder spyder 71 Jan 25 13:55 Text.txt

(spyder@kali)-[~/Istiak_OS_Lab]
$
```

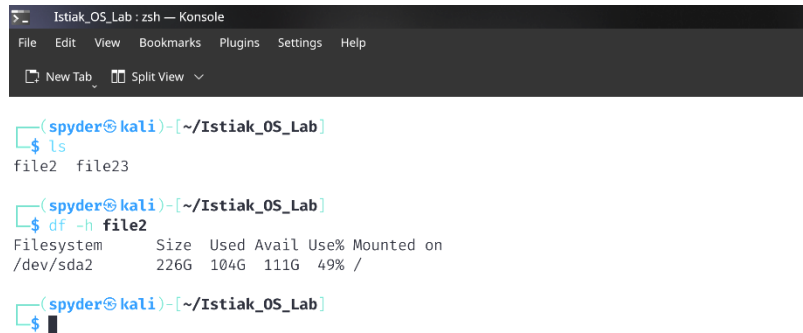
Fig 22 : change owner

1.23 Shows the size used and available space on the mounted file system.

Syntax : `df [option] file`

Command : `$ df -h file2`

Sample Input & Output :



```
Istiak_OS_Lab : zsh — Konsole
File Edit View Bookmarks Plugins Settings Help
New Tab Split View

(spyder@kali)~[/Istiak_OS_Lab]
$ ls
file2 file23

(spyder@kali)~[/Istiak_OS_Lab]
$ df -h file2
Filesystem      Size  Used Avail Use% Mounted on
/dev/sda2        226G  104G  111G   49% /

(spyder@kali)~[/Istiak_OS_Lab]
$
```

Fig 23 : filesystem details