

# File Handling:

file handling and allows users to handle files i.e., to read and write files, along with many other file handling options, to operate on files.

**Advantages of File Handling in Python:** Versatility , Flexibility, User – friendly and Cross-platform

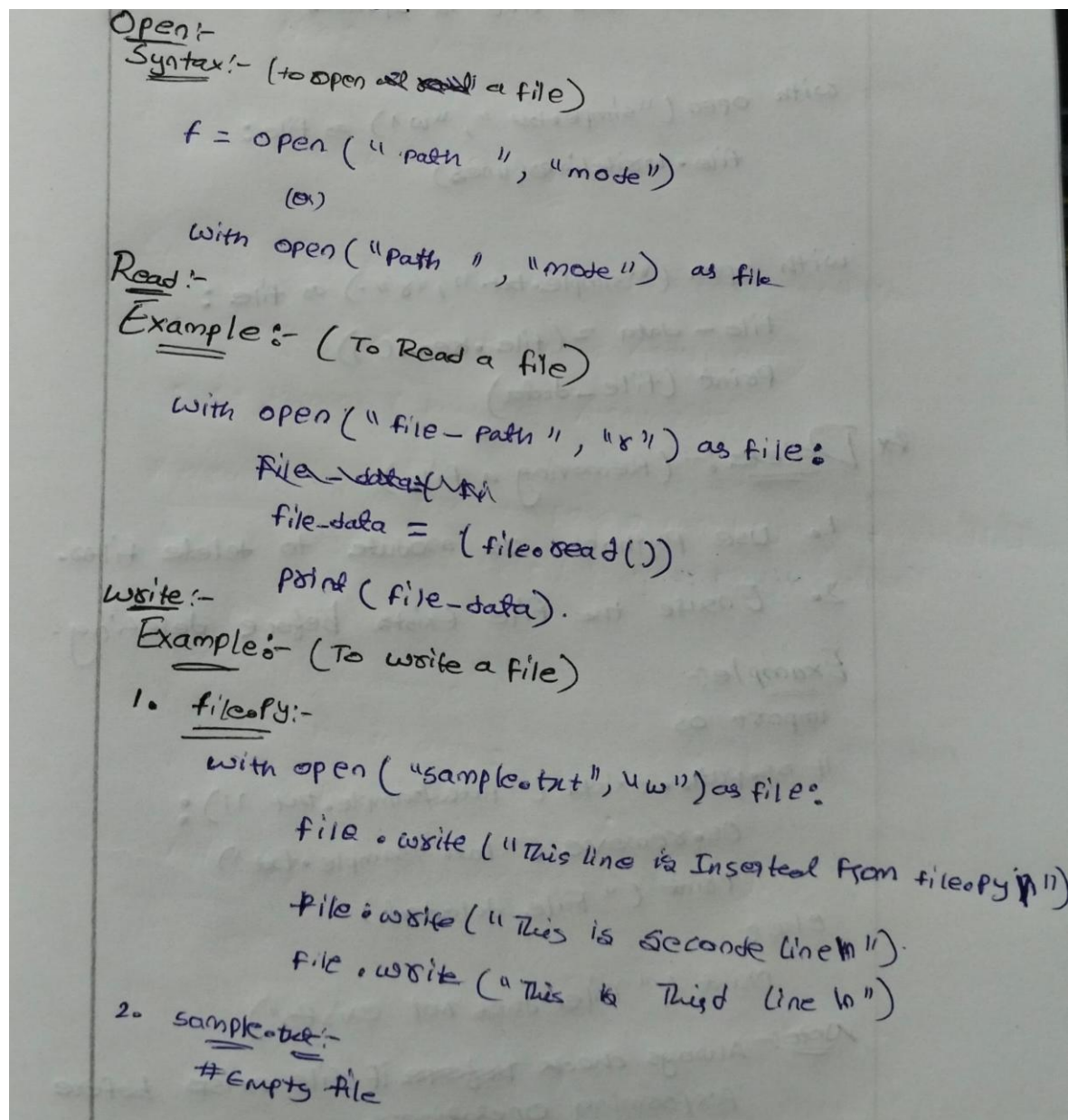
## File Handling

The key function for working with files in Python is the `open()` function.

The `open()` function takes two parameters; *filename*, and *mode*.

There are four different methods (modes) for opening a file:

- "r" - Read - Default value. Opens a file for reading, error if the file does not exist
- "a" - Append - Opens a file for appending, creates the file if it does not exist
- "w" - Write - Opens a file for writing, creates the file if it does not exist
- "x" - Create - Creates the specified file, returns an error if the file exists



### Read Lines :-

- `readline()` :- reads only one line
- `readlines()` :- reads all lines as a page

### Update :-

#### Example :-

with open ("simple.txt", "r") as file:

lines = file.readlines()

lines[1] = "This line is updated"

with open ("simple.txt", "w") as file:  
file.writelines(lines)

with open ("simple.txt", "r") as file:

file\_data = (file.read())

print (file\_data)

### \* Delete :- (Removing a file)

1. Use Python's os module to delete files.
2. Ensure the file exists before deleting.

#### Example :-

import os

if os.path.exists ("path/sample.txt"):

os.remove ("path/sample.txt")

print ("File deleted")

else:

print ("File does not exist")

Note :- Always check ~~before~~ if file exists before performing operations.

⇒ If we want to remove a Particular line in a file just update the ~~width~~ line with empty string.

Example:-

with open ("path/simple.txt", "r") as file:

lines = file.readlines()

lines[1] = ""

with open ("path/simple.txt", "w") as file:  
file.writelines (lines)

with open ("path/simple.txt", "r") as file:

~~file.readlines~~

file\_data = (file.read())

print (file\_data)

File Paths:-

Relative path:- Refers to the file location relative to the script.

Ex:- 'subfolder/file.txt'

Absolute path:- Refers to the complete file location.

Ex:- 'c:/Users/Name/Documents/file.txt'

Example:- (Read function)

def read (f\_name, m):

with open (f\_name, m) as file:

temp = file.read()

return temp.

print (read ("sample.txt", "r"))

TASK:- Create a file perform CRUD operations.