

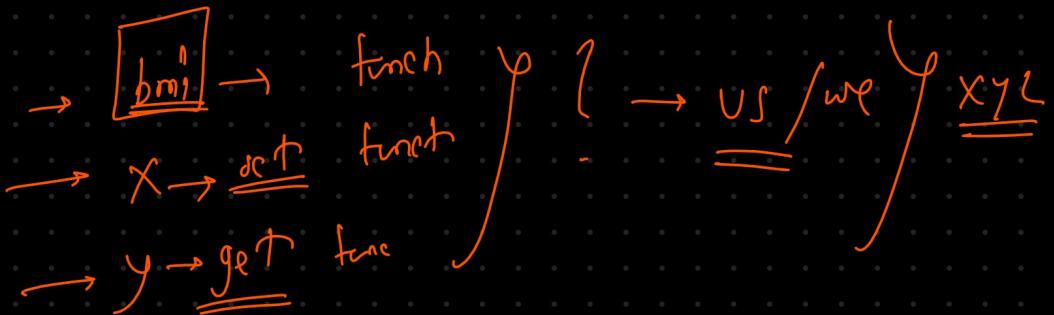
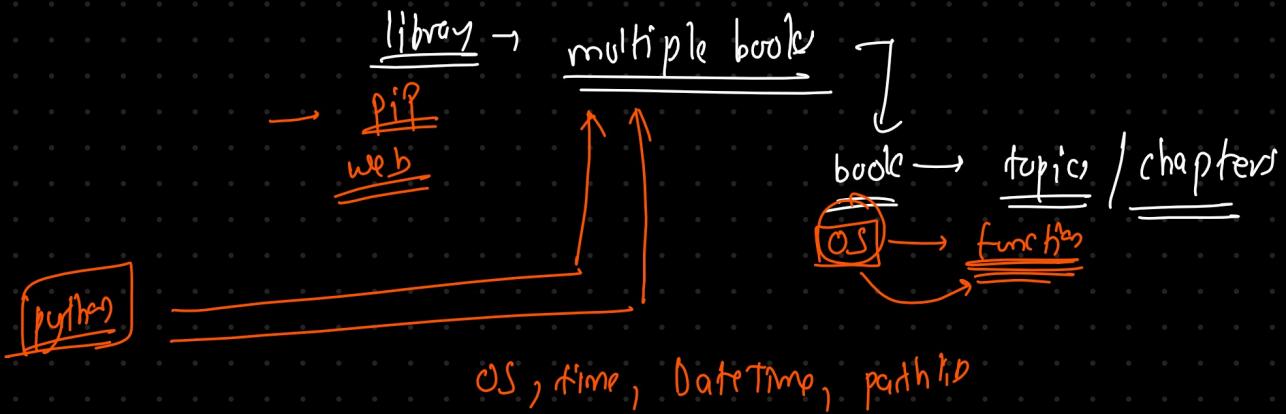
20-04-2025

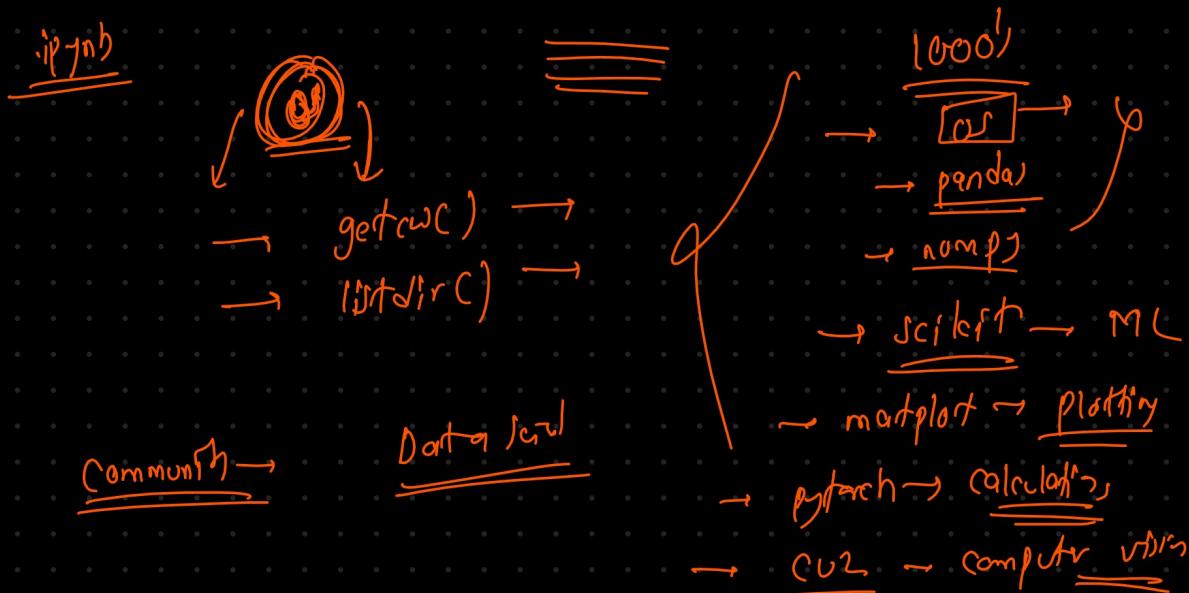
Agenda: —

file operation & exception

file → information / data

→ .xlsx · pdf , .txt , .csv , .jpg , .jpeg , .png · py  
→ row → hard drive  
①      ②

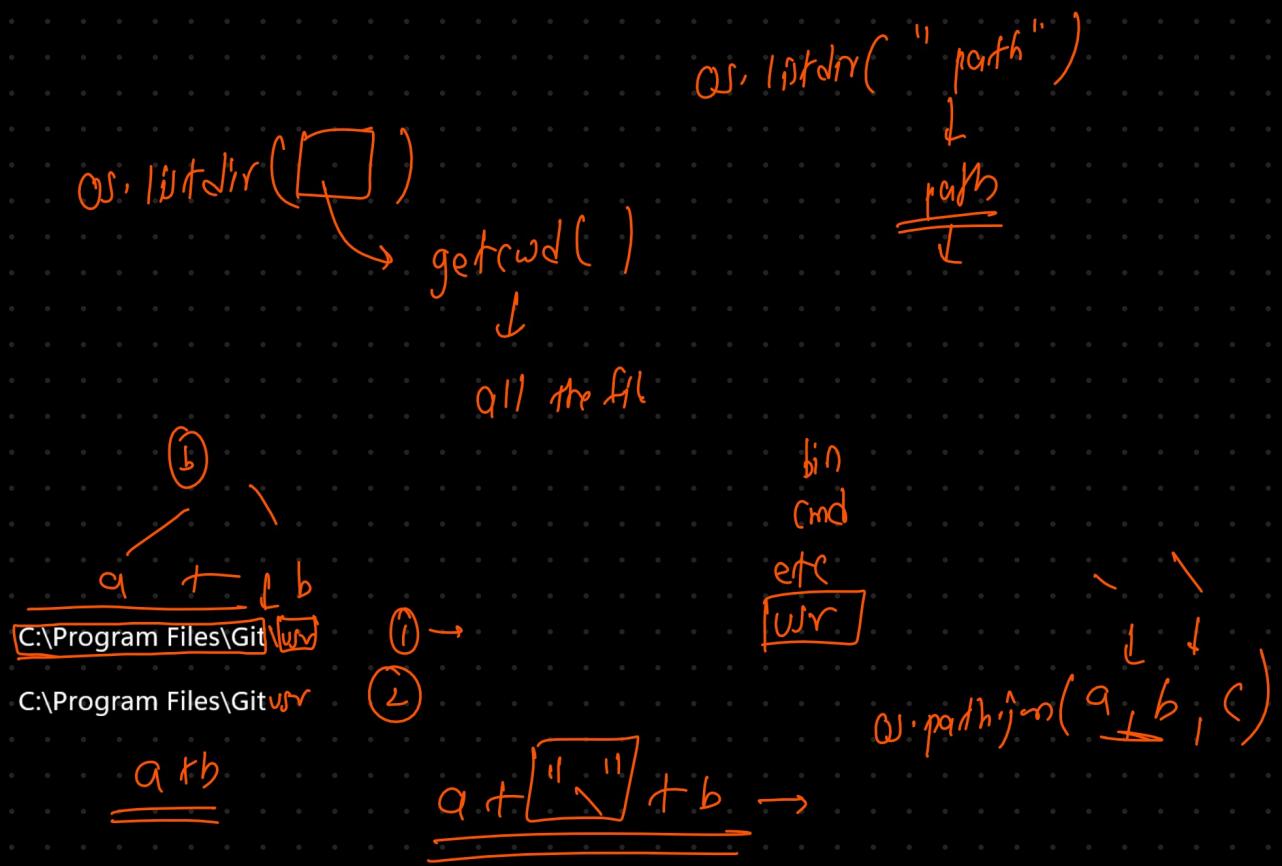




safe to use open source library!

MNC ↗

Xyz → ↗



C:

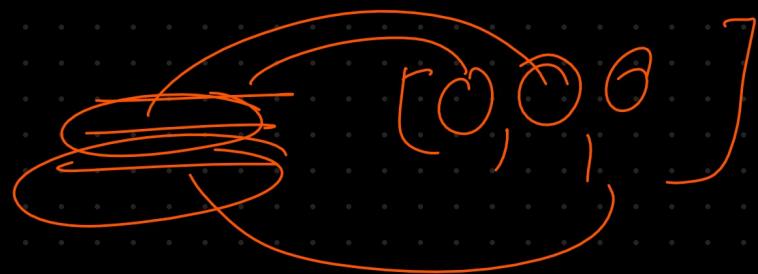
User :   $a.jpg$   $\rightarrow$  image/a.jpg  $\rightarrow$  relative

Mono :

Term :   $a.jpg$   $\rightarrow$  a.jpg  $\rightarrow$  relative

cur

C:/user/momo1/term/a.jpg  $\rightarrow$  null path

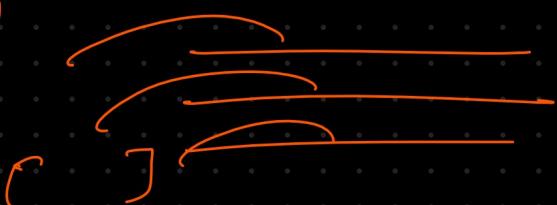


`f = open('file-name')`

`f.read()`  $\rightarrow$  read all data



`f.readlines()`  $\rightarrow$  read all data  
but line by line



`f.readline()`

read → everything at once

readline() → single line

readlines() → single line but all lines as a list

functions()

open(file-path, mode) → "r"

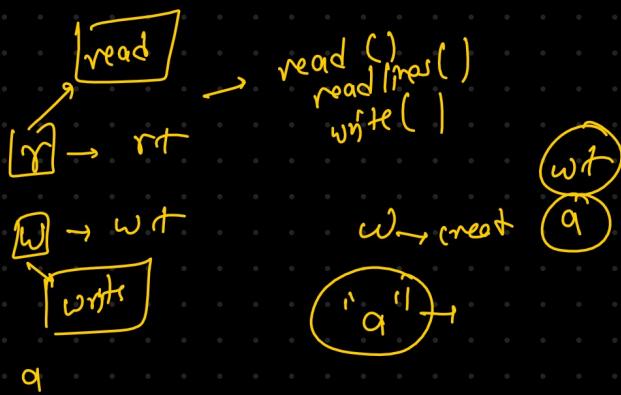
file modes:

"r" → read, error if file does not exist (Default)

"w" → write, creates new or truncate existing file,

"a" → append,

"t" → update



rt

read

write

file must exist

write from beginning  
& does not  
truncate

wt

read

write

create file if  
not exist

truncate/empty  
first then write

at

read

write

create file

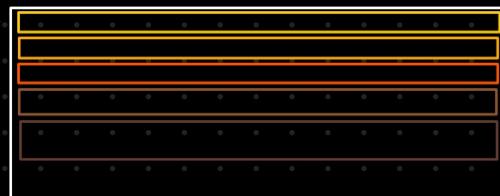
(appending from  
last line)

- `r`: Opens the file for reading only. Raises an error if the file doesn't exist.
- `r+`: Opens the file for both reading and writing. Raises an error if the file doesn't exist. Starts from beginning.
- `w`: Opens the file for writing only. Overwrites the file if it exists; creates a new file if it doesn't.
- `w+`: Opens the file for both writing and reading. Overwrites the file if it exists; creates a new file if it doesn't. Truncate the contents.
- `a`: Opens the file for appending data to the end. Creates a new file if it doesn't exist. Preserves the existing content.
- `a+`: Opens the file for both appending and reading. Creates a new file if it doesn't exist. Appends new data to the end while allowing reading from the beginning.

## Assignment 1

Step 1 :  
Data  
Ingestion

Name  
Phone no  
Email / Address  
Group



database.txt

Monal → Step 2.1 : Search contacts via Name

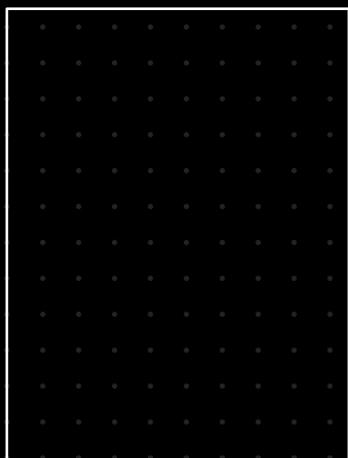
Monal xyz@gmail.com xxxxxxxx home  
Monalkumar xyz@gmail.com xxxxxxxx office

Step 2.2 : Search contacts via group ← Home

Monal xyz@gmail.com xxxxxxxx home  
Lucas xyz@gmail.com xxxxxxxx home  
Riyam abc@outlook.com xxxxxxxx home

Step 2.3 : Ability to delete context (data should be removed from database.txt)

## Assignment 2



To-do list

- ① Add to task list
- ② Remove task from list
- ③ Complete task from list
- ④ Get all active tasks (To-do)

④ + ① + ④  
④ + ② + ④  
④ + ③ + ④  
④

Welcome to to-do list app :  
Press 1 to add a new task  
>> buy groceries  
Press 2 to Remove task  
>> Press id of task you want to remove  
>> 2  
Press 3 to complete task  
>> Press id of task you want to mark as complete  
>> 2  
Press 4 to view to-do list  
>> show all active task

**Assignment 3 :** Write a function to check whether number is palindrome.

**Assignment 4 :** Write a function which take total values as input and create Fibonacci series of that length

user : 5  
output : 0, 1, 1, 2, 3

**Assignment 5 :** Write a function which take 2 list of same length and perform dot product.

user : [1,2], [1,2]  
output : 5

