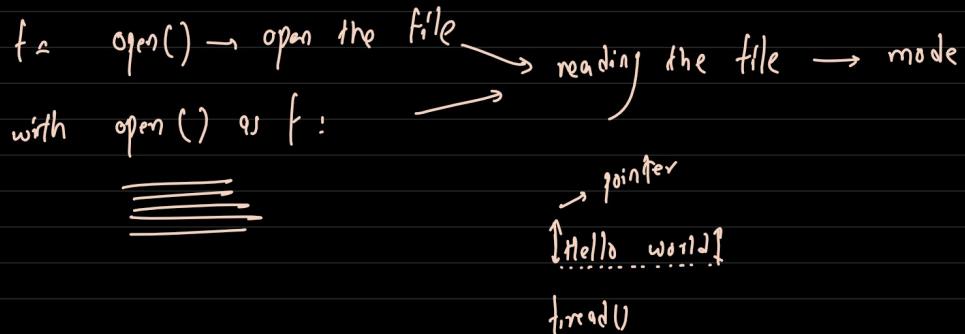


01-02-2026

## Agenda :

- File Operations - II
- Exception Handling
- Exit commands
- OOPS intro

## File Operations



Mode Matrix/Table

Mode	Meaning	Pointer start	wipe file	usage	Create file?
r	Read only	Beginning	No	Standard Reading	Does not create file
w	Write only	Beginning	Yes	Fresh start, deletes old data	Creates file if not present
a	Append	End	No	Adding more content	Creates file if not present
r+	Read & write	Beginning	No	Modifying existing content	Does not create file
wt	Write & Read	Beginning	Yes	Overwrite	Creates file if not present
at	Append & Read	End	No		Creates file if not present

a.txt → f = open('a.txt', 'rt') :

### Scenario-1

f.read() → read all content

f.write() → Hello

### Scenario-2

f.write() → \*\*\*

f.read() →

→ what if i want to add new content in the middle of file?

→ pointers

→ some method which will help w/ move pointer

→ f.seek() # move the pointer/cursor

q, rt → always append at the end of the file.

→ moving pointer using f.seek() will not work,

r, rt, wt, w → f.seek() will work.

### Assignment:

Add new data in the middle of the file without overwriting the existing content.

- rt, wt
- ↓ ↓
- f.write()
- f.read() f.tell()
- f.tell() f.tell()
  - ↓ ↓
  - last-index last-index
- middle-index → (last-index // 2) + 1
- f.seek(middle-index)

→ `from_center_ = f.read()`

content → 10 → \* \* \* → 13]

→ `f.write(" * * *")`

→ `new_pointer_loc = f.tell()`

→ `f.write(from_center_content)`

if condition :

=====

try :

=====

else :

=====

except:

=====

===== → error  
exit()

===== → error → print(" \_\_\_\_")

fm ↗ port by name

Exception Type : FileNotFoundError

FileNotFoundError ←

TypeError ←

try : =====

try : ===== → file operations

except: =====

except FileNotFoundError :

=====

```
import os ←  
  
try:  
    file_path = "temp/temp_3.txt" ✓  
    with open(file_path, "r+") as f: → error → Type →  
        contents = f.read()  
        print(contents)  
    except FileNotFoundError: ←  
        print("File not found, Please check correct file name or path") ✓  
        print("Current location is : ", os.getcwd()) ✓  
        print("File name selected : ", "temp/temp_3.txt") ✓  
    except TypeError:  
        print("Issue with multiple type operation.")  
  
print("Hello world")
```

try

1. Use it to handle errors gracefully.
2. Use it to write better debug comments.
3. Use it to execute the otherwise code. (recovery code)

except

try:  
 ↓↓↓↓  
 ↓↓↓↓

print( inside my block )

except:  
 ↓↓↓↓

else:  
 will run only when try is successful, zero error

try :



try :   

except :   

except Exception as e:

else :

else :

finally :

finally :

run no matter what

mac OS → restart / shutdown → closing all application  
window) → force close at the end  
→     
→ finally :

try :

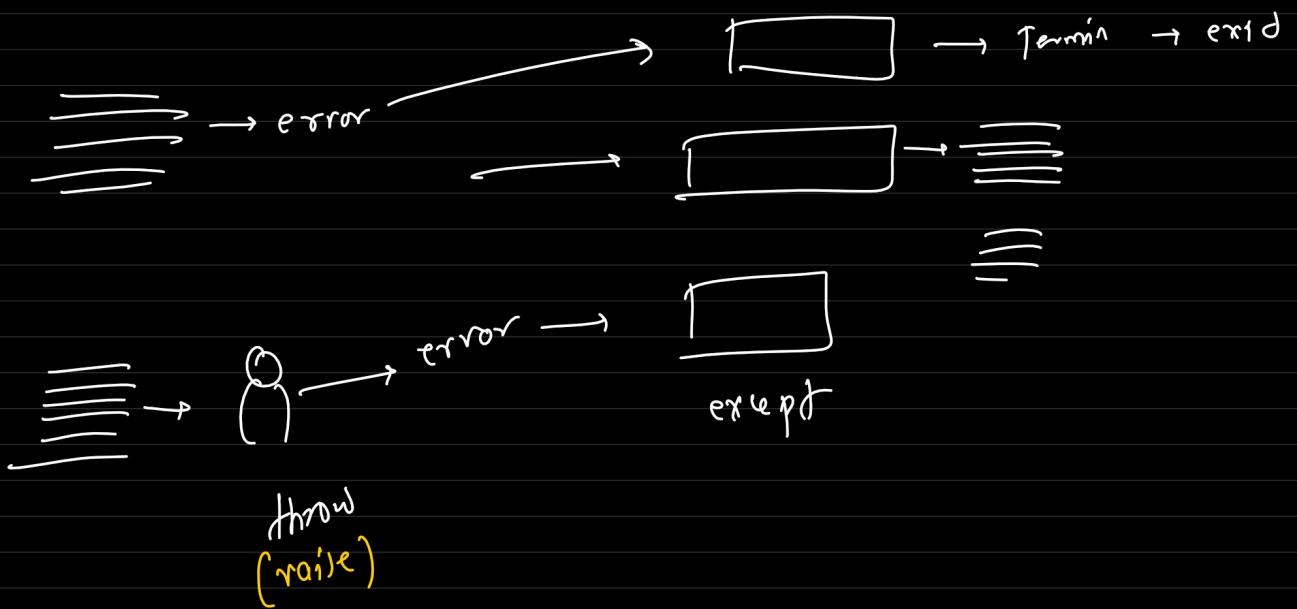
    
  

safe close

finally :

[ ] → force close

force close



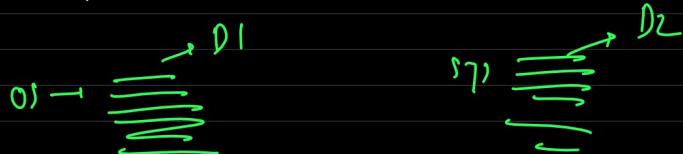
### exit command:

exit the application gracefully

(1) `exit()` → only works with terminal

(2) `import os  
os._exit()`

(3) `import sys  
sys.exit()`



`break` → `sys.exit()`

`os._exit(0)` → `9+1`

`os.exit(0)` → `8+1`

`0 1 2 3 4 5 6 7 8 9`