File Handling

- How and Why file handling
- Create and Open files
- Close files and why should we do this
- Using different modes to read and write files
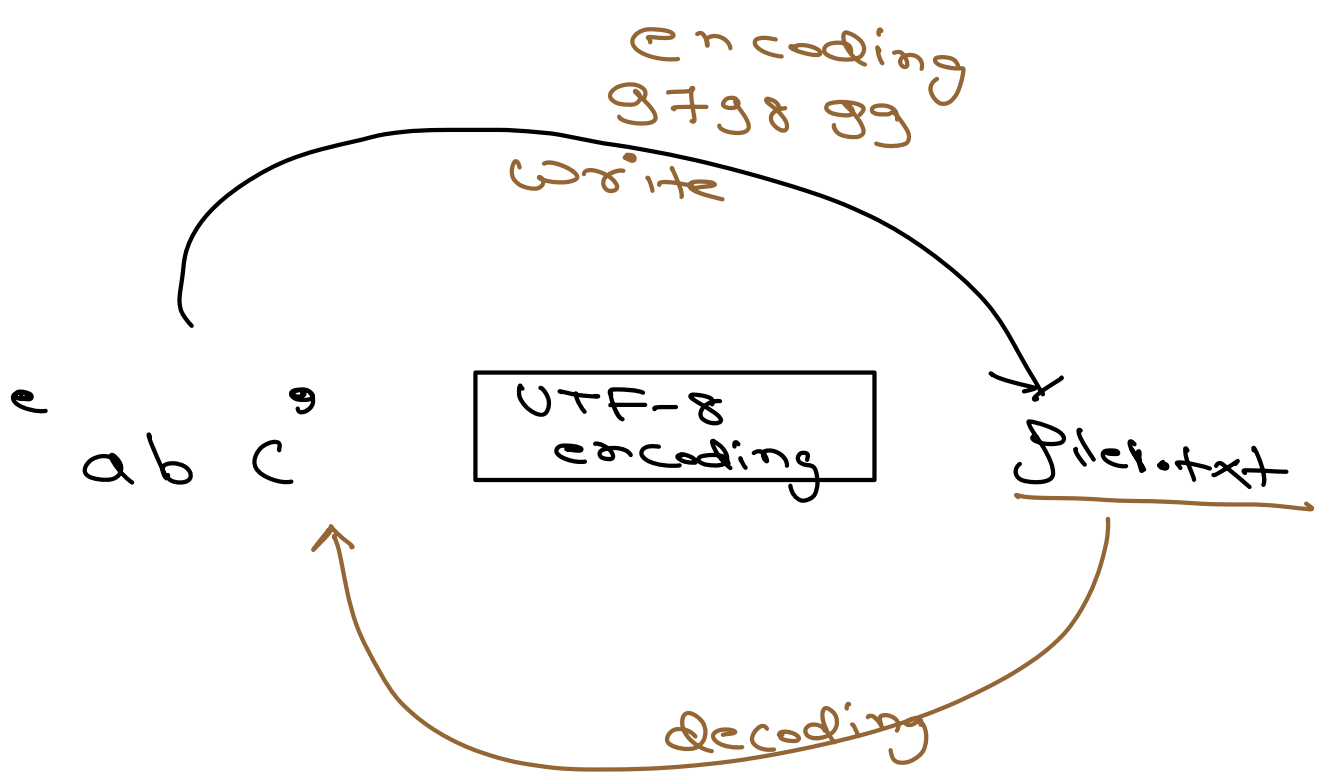- Cursor Management
- Context Manager

Memory Types

Primary Memory (RAM)	Secondary Mem (SSD, HDD)
Very fast	Slow
Costly	Cheap
Volatile (Nonpersistent)	Persistent

encoding
97 98 99

Write

`a b c`

```
UTF-8
encoding
```

file.txt

decoding

ASCII } → 255
UTF-8 }
Unicode }
        ﬩

encoding	decoding
`a` : 97	97 : `a`
`b` : 98	98 : `b`
`c` : 99	99 : `c`
`"`	`"`
`1` : `"`	`"`
`1` : ..	`"`

123 → X
'123' → ✓

read ⇒   f ⇒ open(Path, 'r')

⬇

① Cursor at the beginnin

"a b c d e f"   ↗

↑   f.read( )

Cursor   Cursor at end

                       a b c

                       f.read()