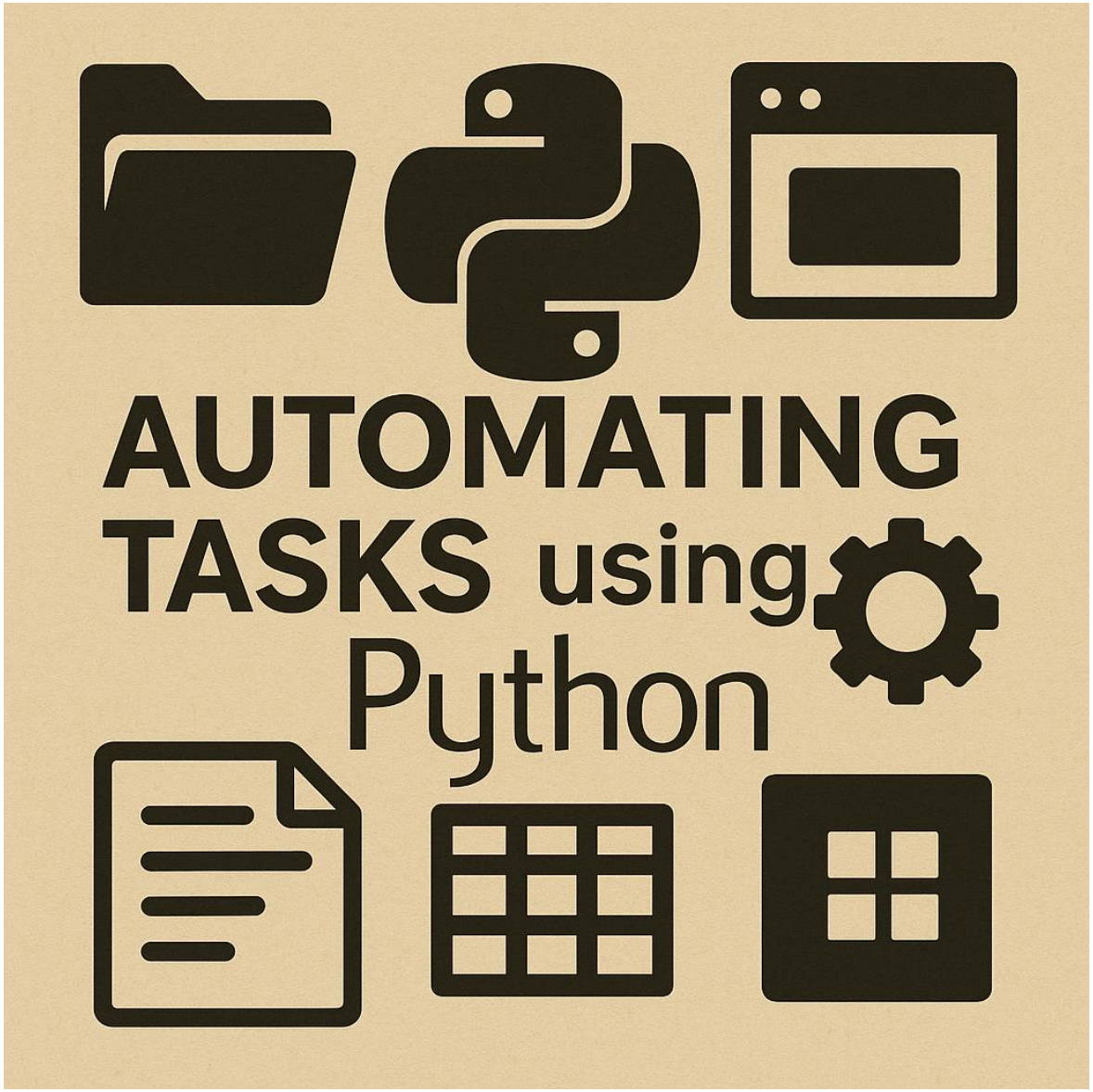


Course Materials:

https://github.com/ValRCS/RTU_Automating_Tasks_With_Python

VIDEO 2 – Working with Text Files & String Processing

- Working with text files
- String methods
- Lists
- Loops
- Branching / logic

Quick Review from Video 1

Running Python files

Using VS Code & Terminal

print(), variables

What Are Text Files?

- Plain text vs formatted
- UTF-8
- Why automation starts with text

Reading a Text File

open("file", "r")

with open(...) as f

read(), readlines()

Basic String Processing

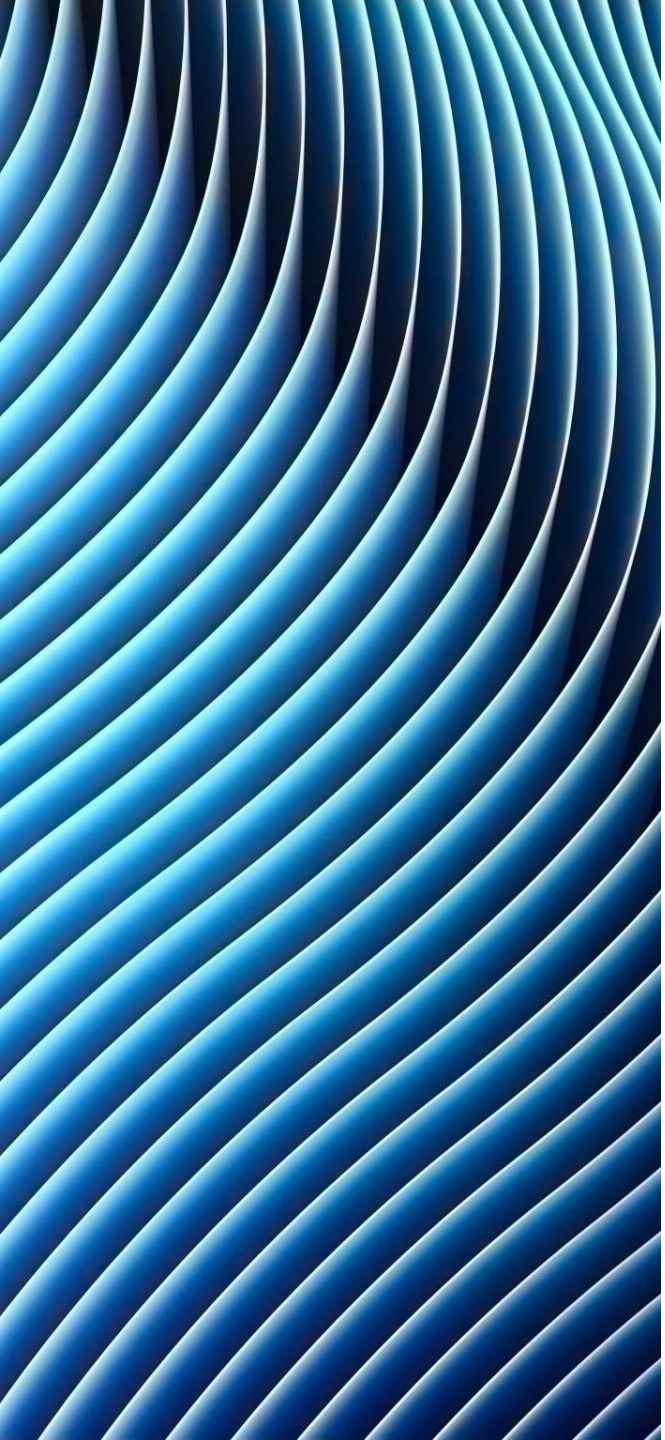
- .strip()
- .lower() / .upper()
- .replace()
- .find()
- .split()

Lists

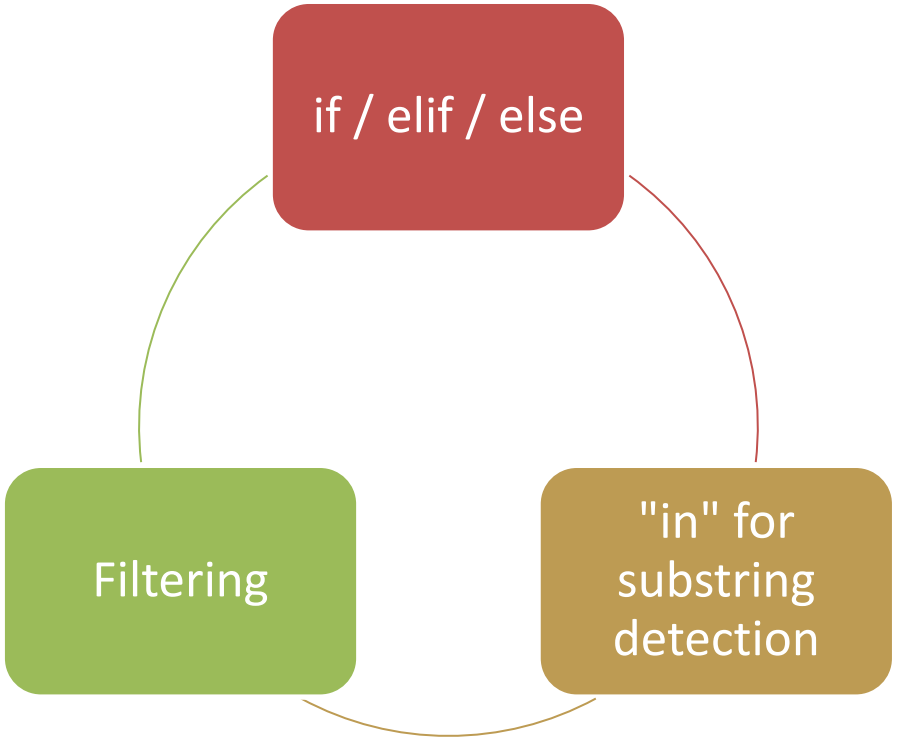
- Store many pieces of text
- Indexing
- Processing lines

Loops

- for loops
- Iterate lines
- Clean / count / filter



Branching / Logic



Mini Automation Script

Read → clean → filter → write

Realistic small example

Writing to a File

- w = overwrite
- a = append
- Write lines with \n

Common Mistakes

- Missing encoding
- Forgetting strip()
- Using read() incorrectly

Exercise

- Load file
- Clean lines
- Filter
- Save

Summary

- Files
- Strings
- Lists
- Loops
- Logic