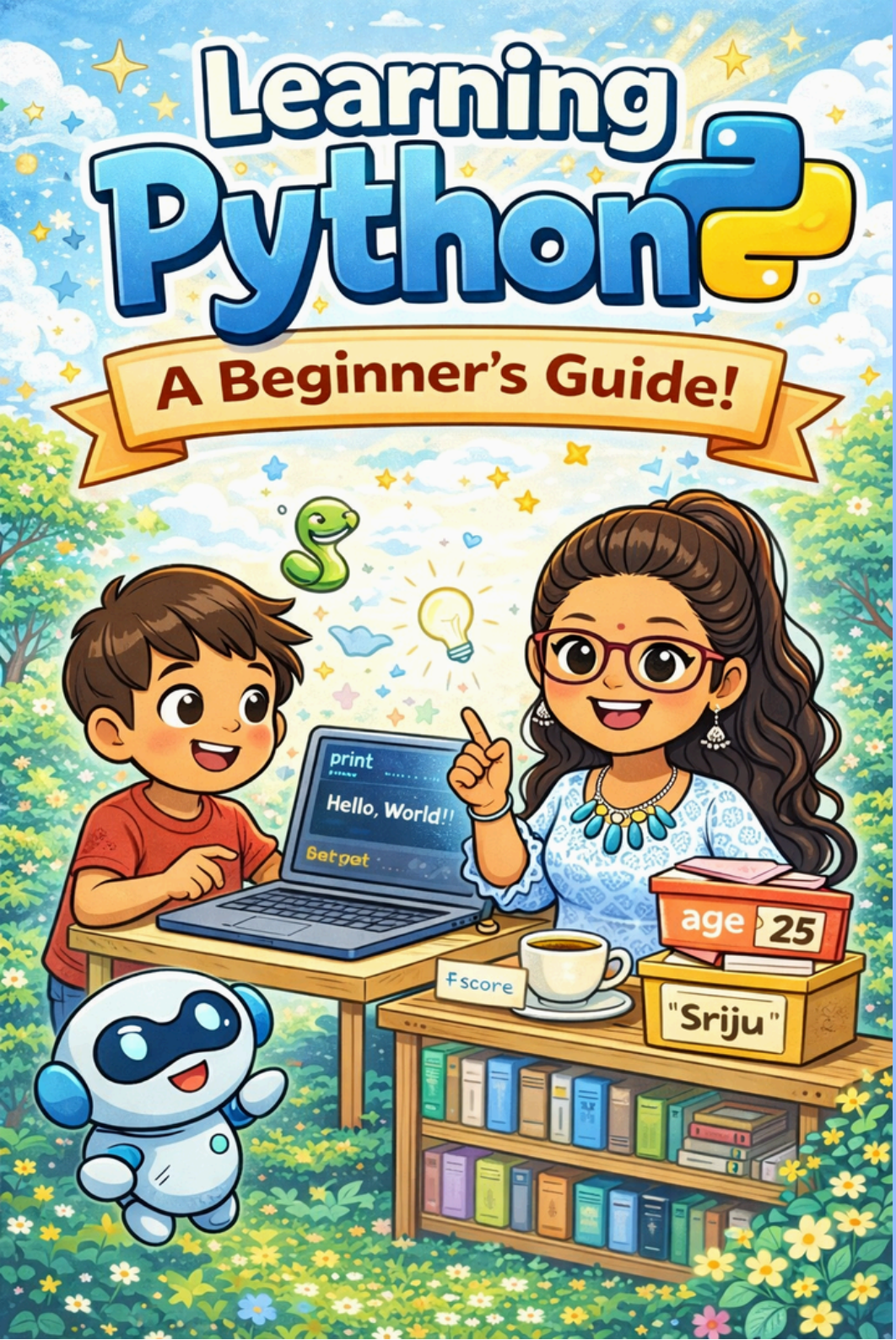
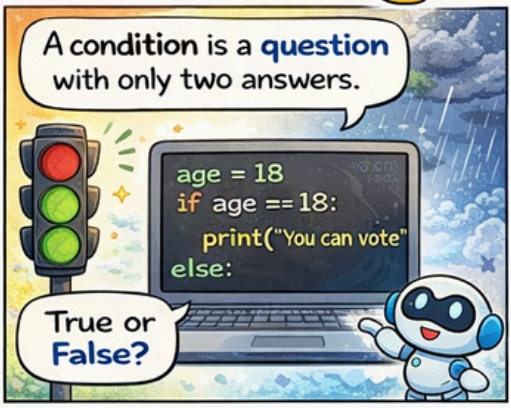
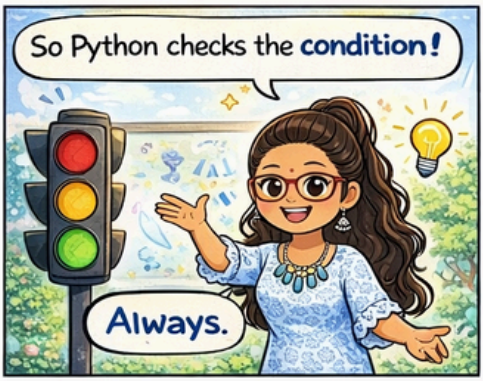
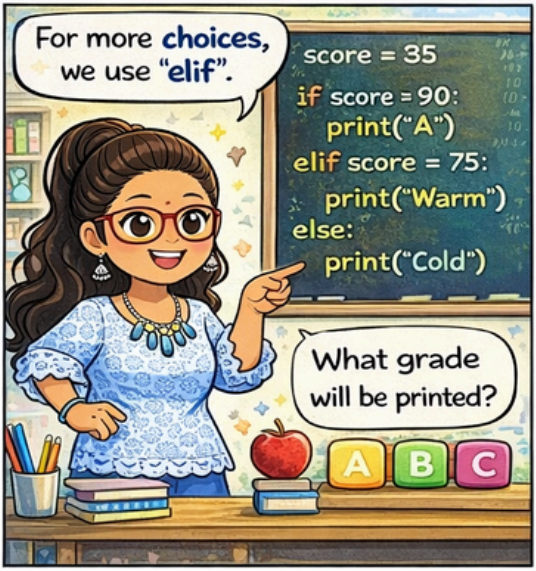

Learning Python
A Beginner's Guide!
print
Hello, World!!
age 25
score
"Sriju"


Sriju, everyone's talking about Python. Isn't that a snake?
Python is a programming language.
So.. you "talk" to computers?
Here's our first instruction!
Yes! Python loves simplicity.
Hello, World!
city = ?
print(city)
Think of variables as labeled boxes.
So the box named "age" stores 25?
age 25
name
Sriju
Favorite_food
Score
Your turn! What should go inside the "city" box?
Bangalore
Paris
Tokyo
age 25
Sriju
Bangalore
Paris
So this is just the beginning?
Python is used for:
AI & Machine Learning
Data Science
Web Apps
Automation
Next...
That's Episode 2!
See you in Episode 2!

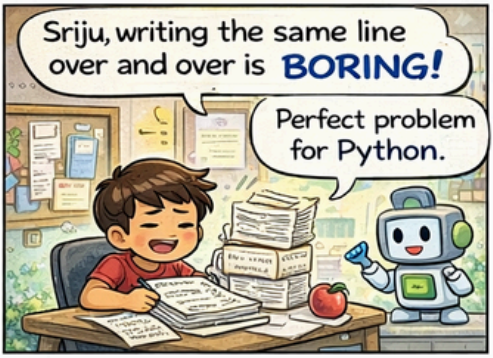
Teaching Python to Decide: If, Else & Logic

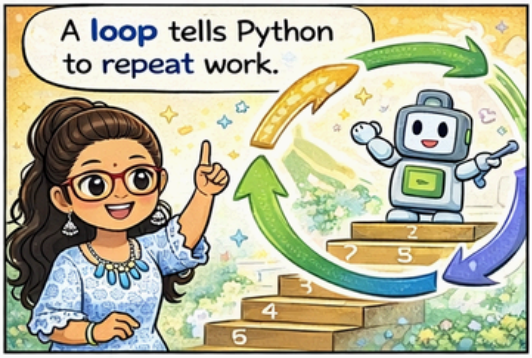


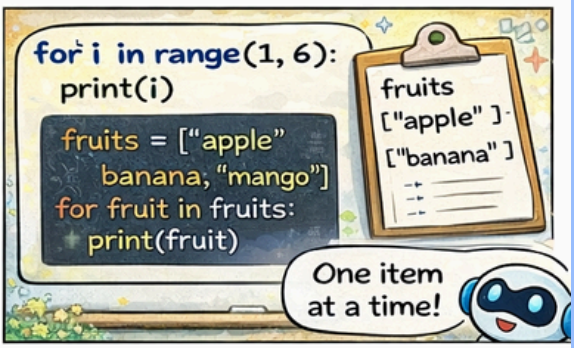


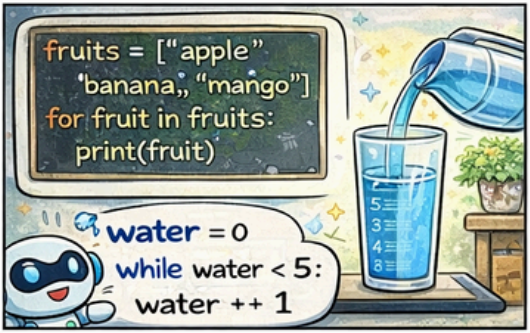


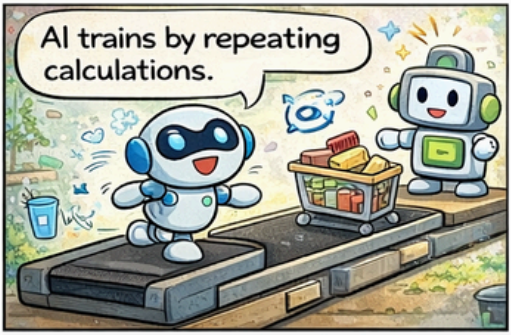
Making Python Repeat Work:
Loops & Automation



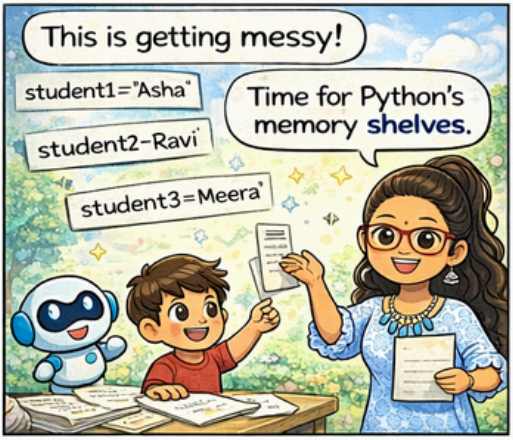


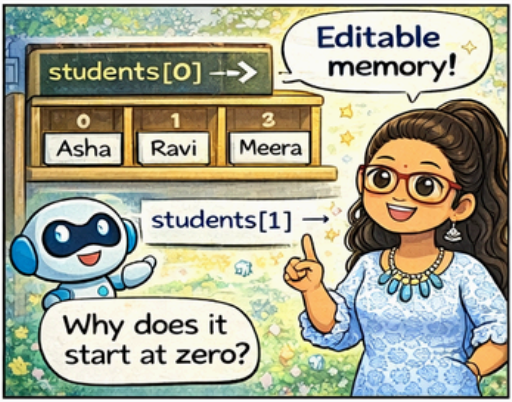


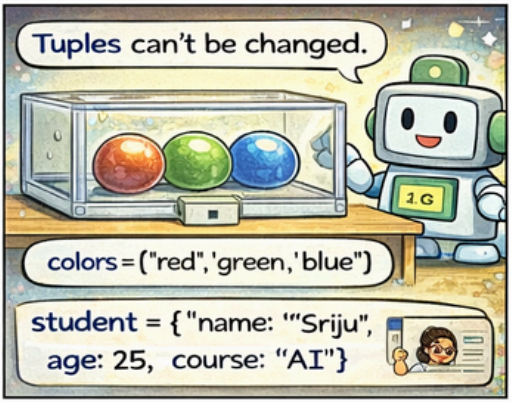


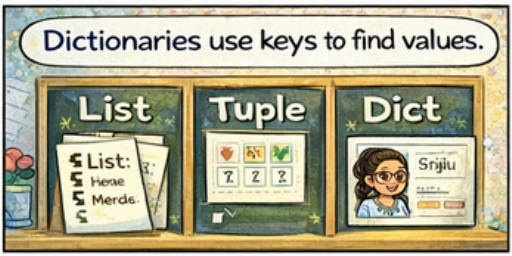


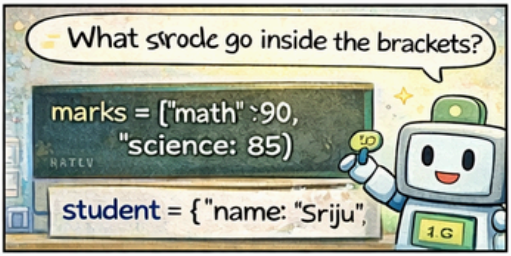
Python's Memory Shelves: Lists, Tuples & Dictionaries



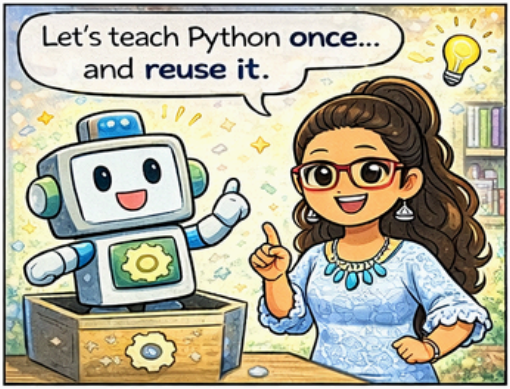


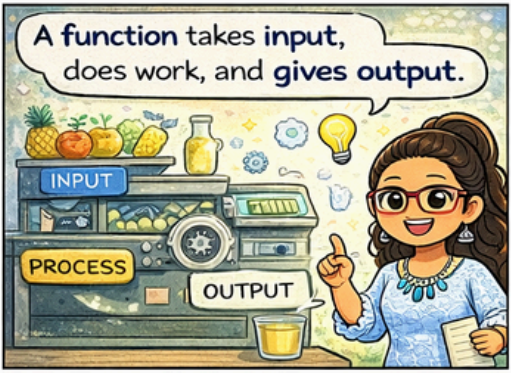


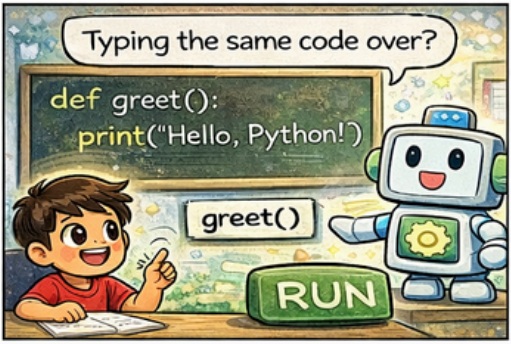


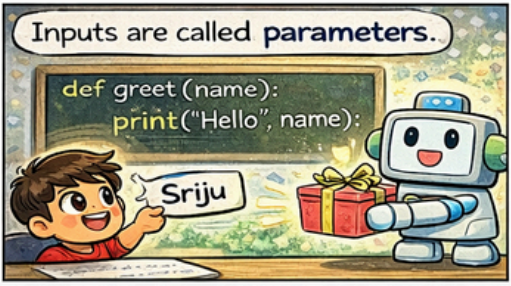


Sriju Builds Smart Code:
Functions & Reusability

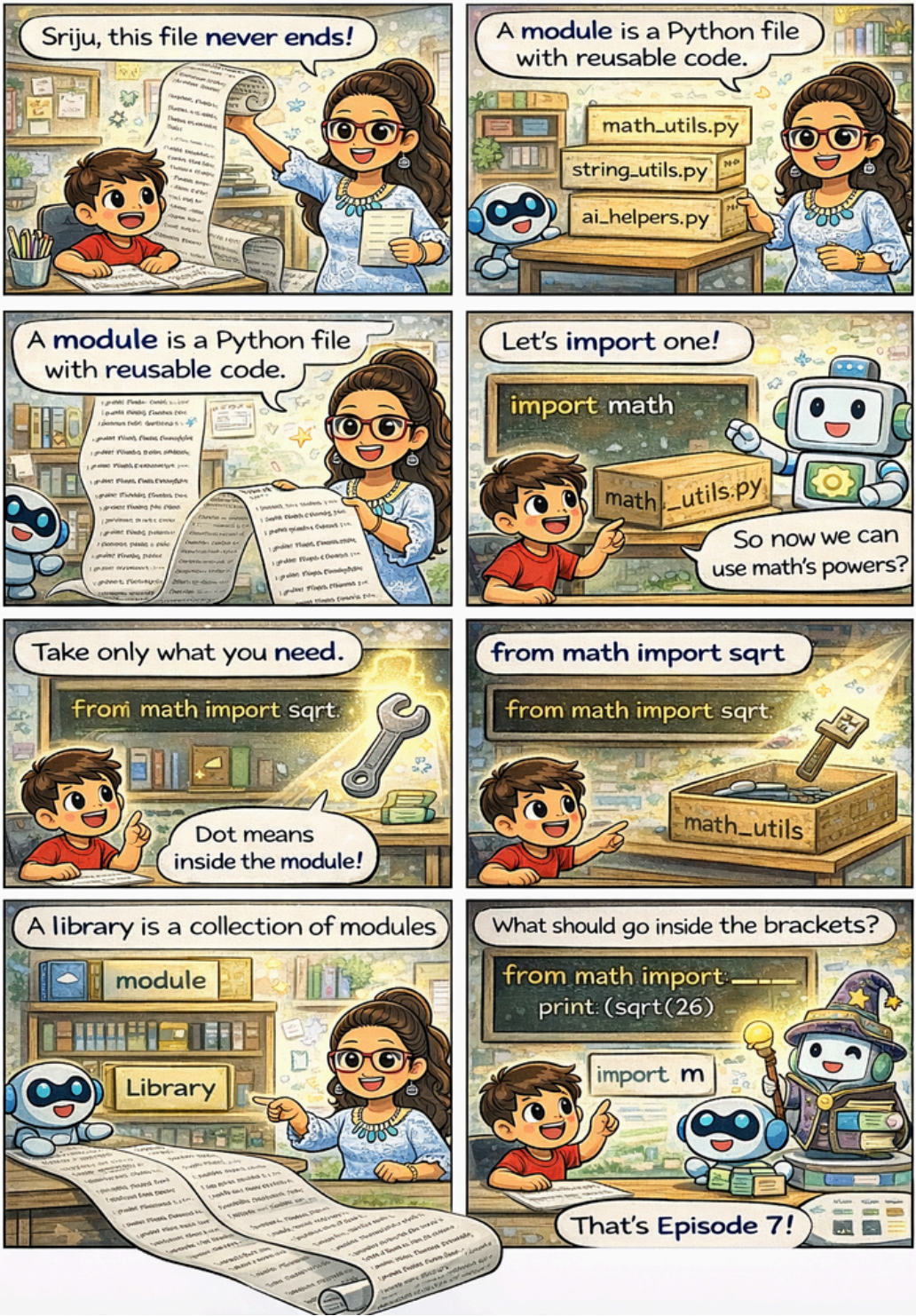




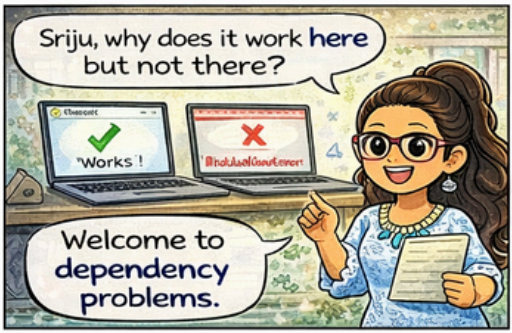


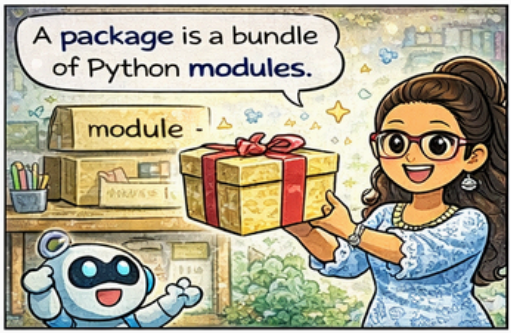


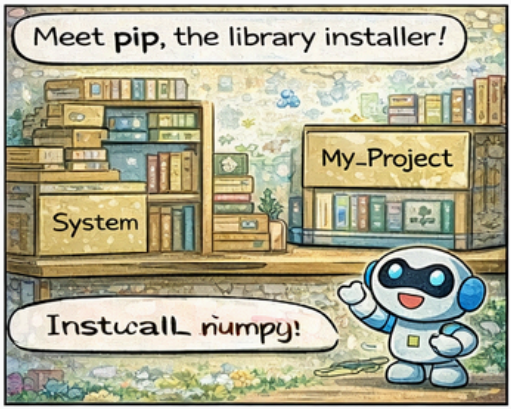
Power-Up Python: Modules, Libraries & Imports

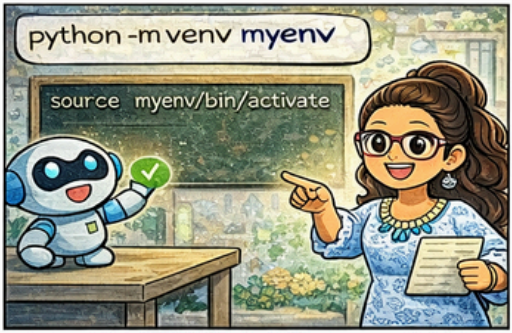


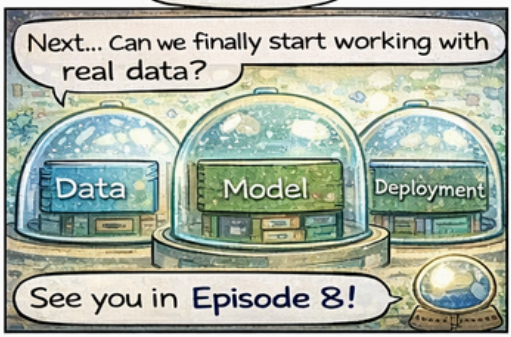
Unlocking Python Powers:
pip, Packages & Virtual Environments



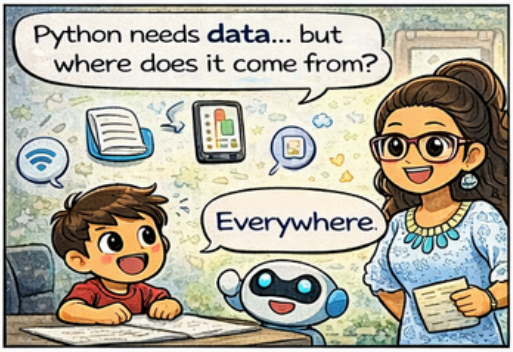


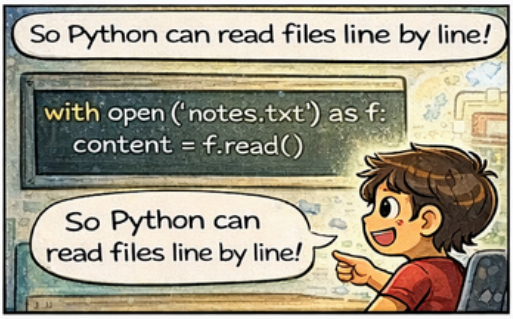


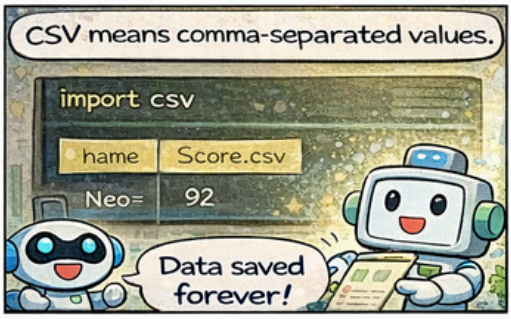


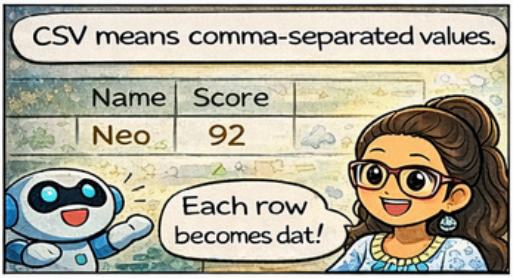


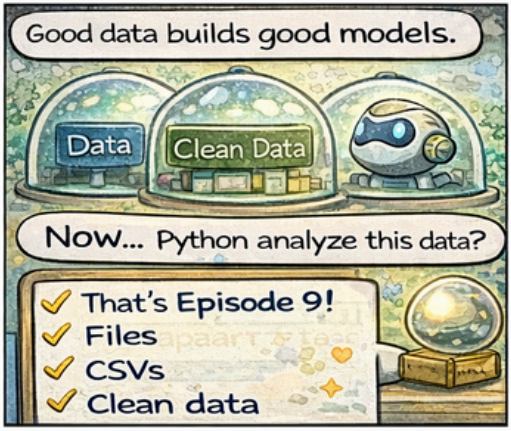
Working with Real Data:
Files, CSVs & Data Handling



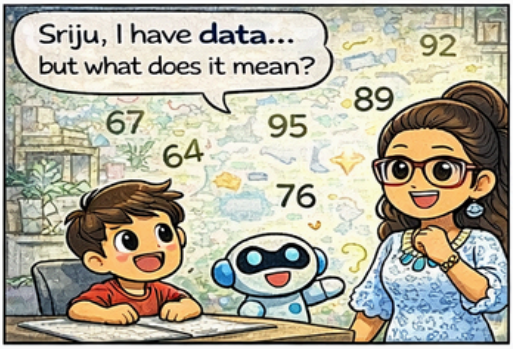


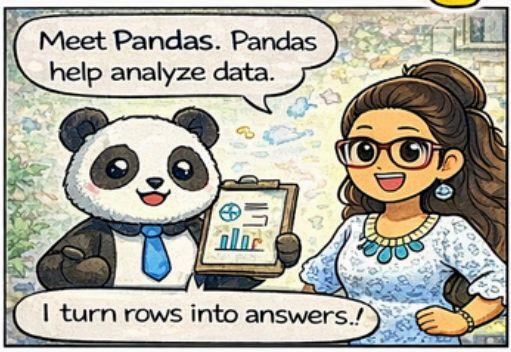


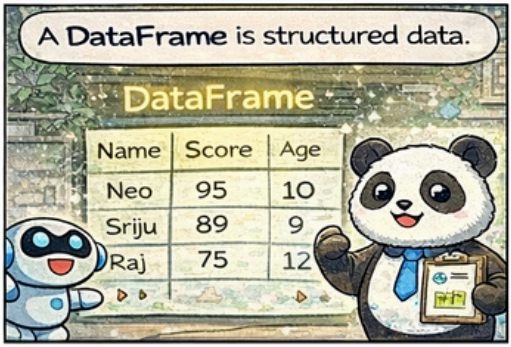


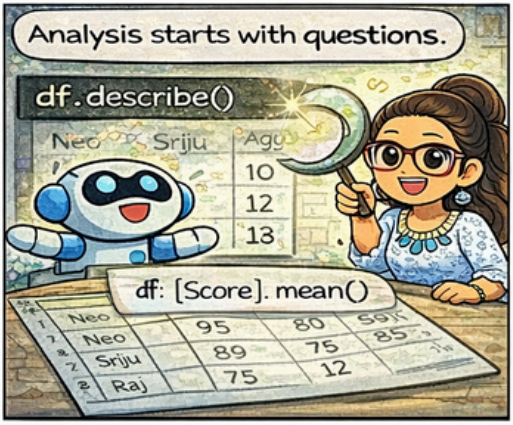


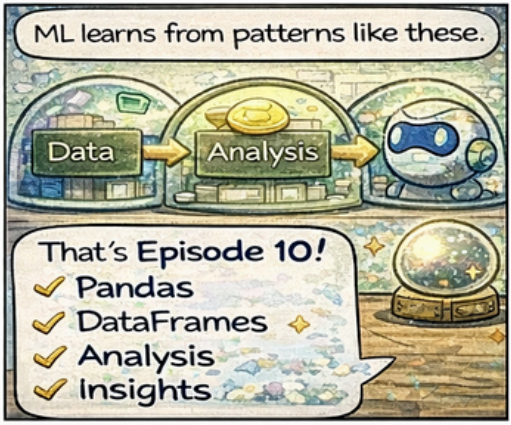
Seeing Patterns: Data Analysis with Pandas



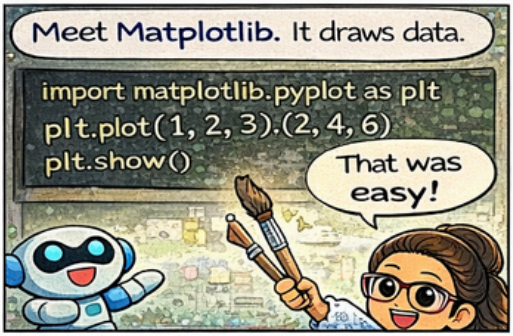


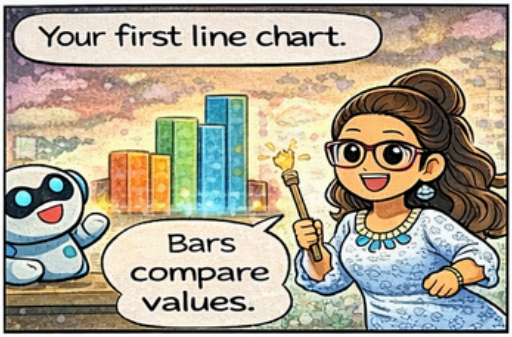


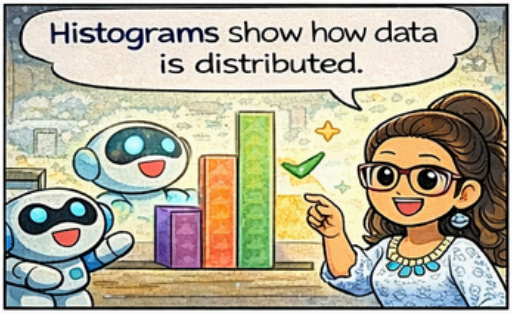


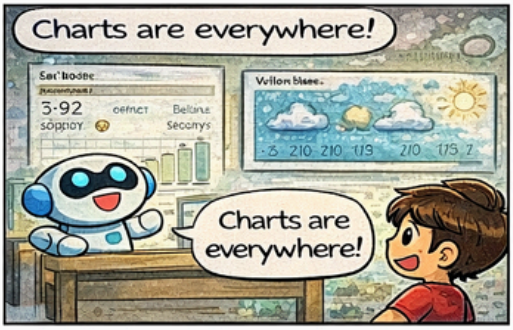


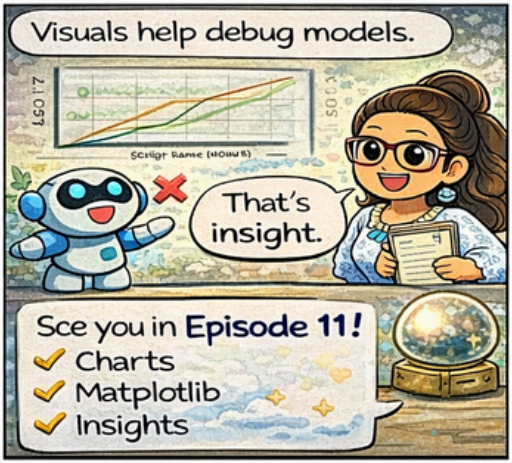
Telling Stories with Data: Visualization in Python

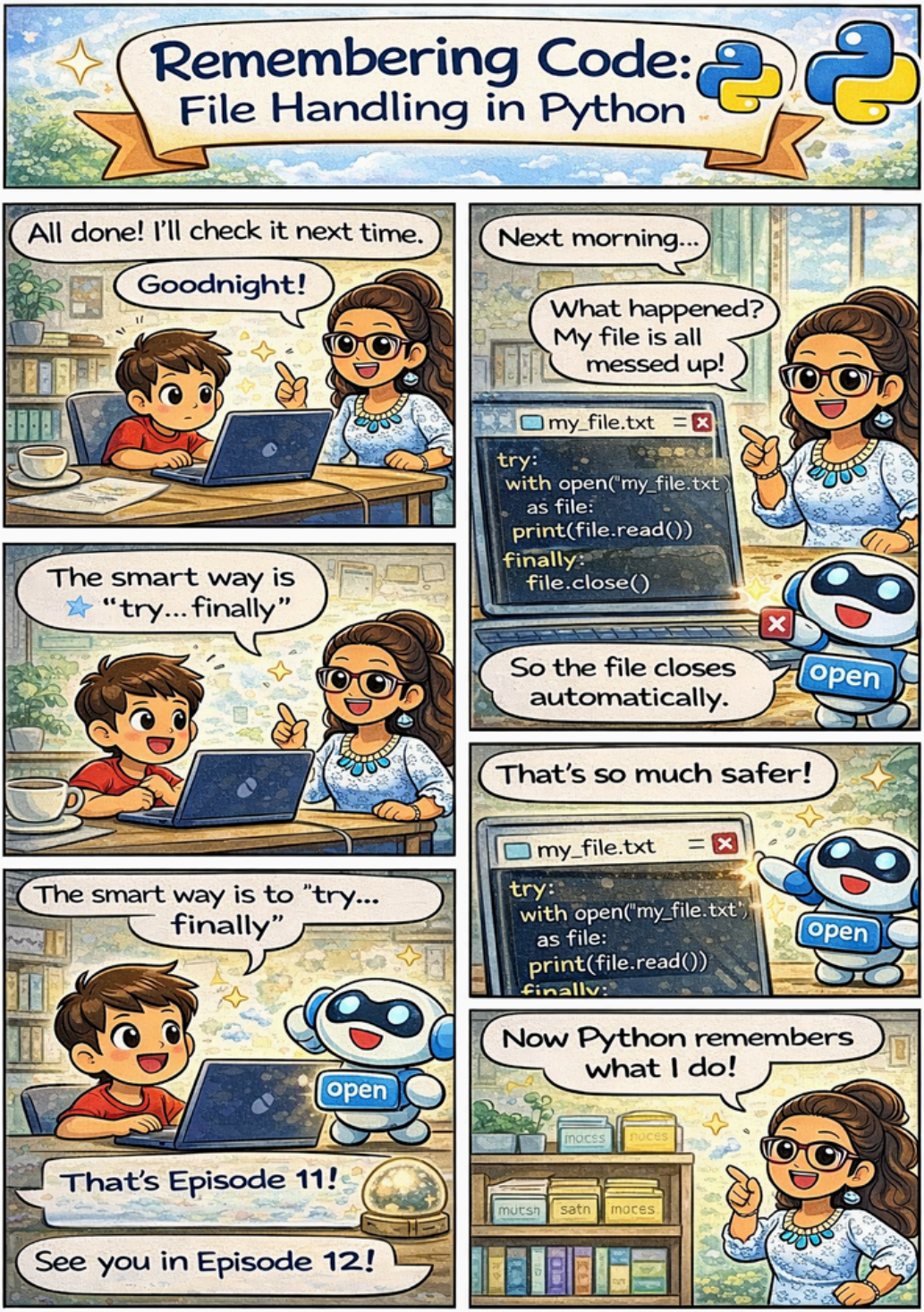


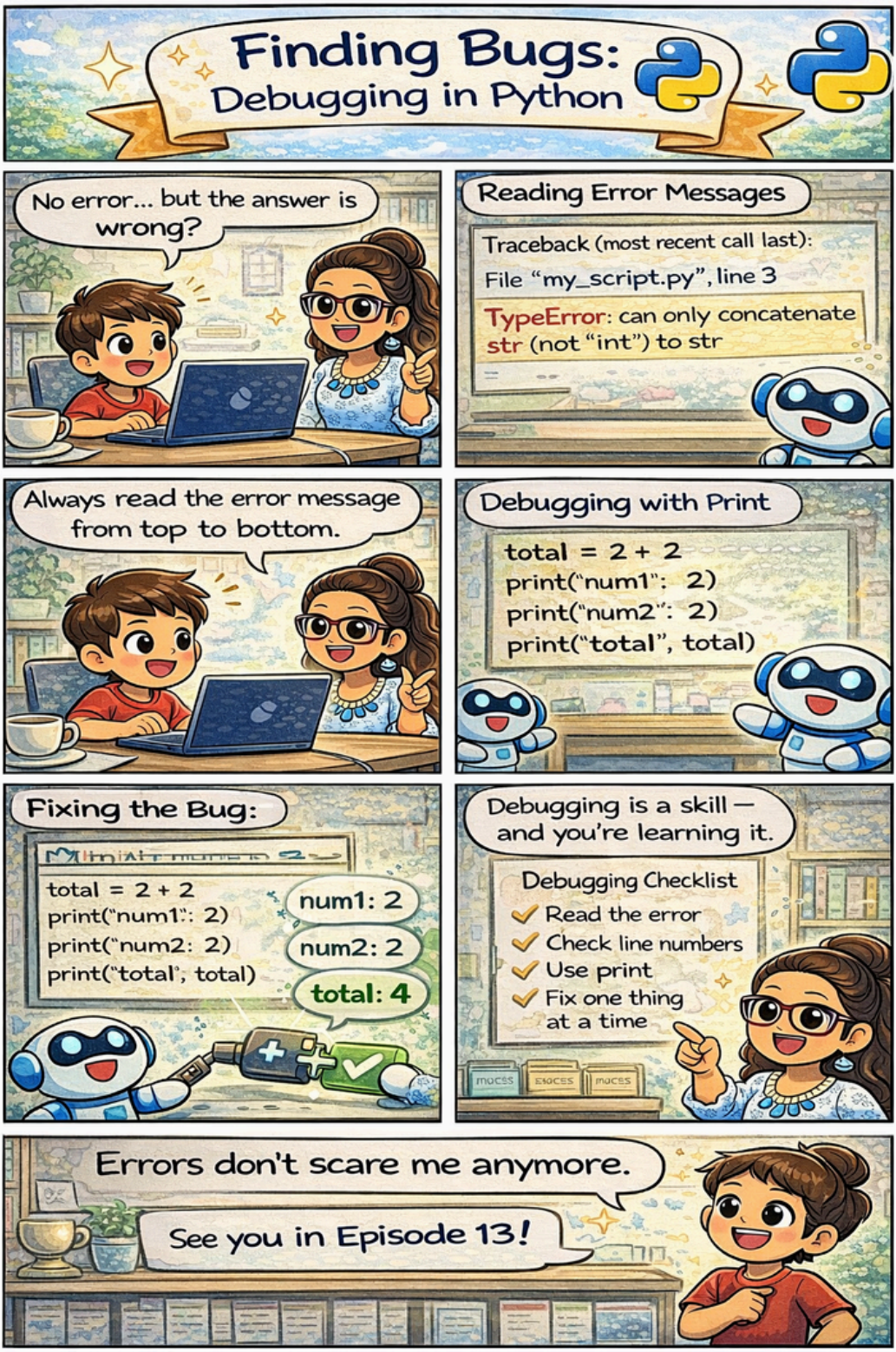






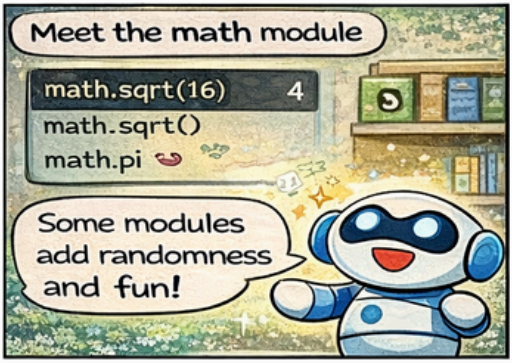


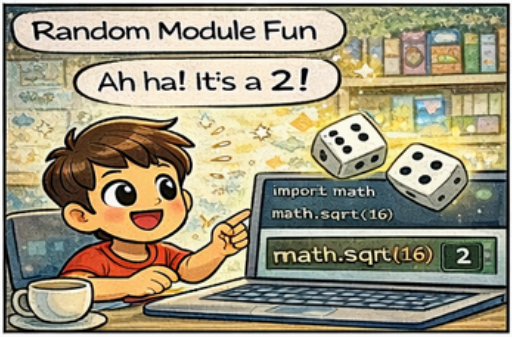

Remembering Code:
File Handling in Python
All done! I'll check it next time.
Goodnight!
Next morning...
What happened? My file is all messed up!
my_file.txt
try:
with open("my_file.txt") as file:
print(file.read())
finally:
file.close()
So the file closes automatically.
open
The smart way is "try... finally"
That's so much safer!
my_file.txt
try:
with open("my_file.txt") as file:
print(file.read())
finally:
open
The smart way is to "try... finally"
open
That's Episode 11!
See you in Episode 12!
Now Python remembers what I do!

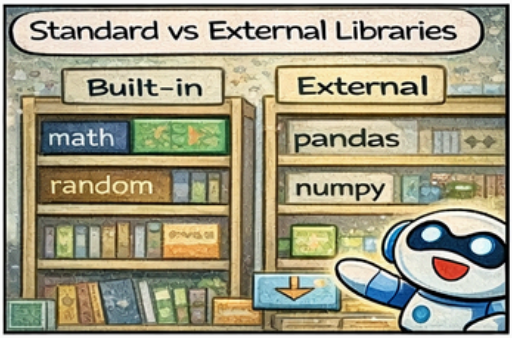

Finding Bugs:
Debugging in Python
No error... but the answer is wrong?
Reading Error Messages
Traceback (most recent call last):
File "my_script.py", line 3
TypeError: can only concatenate str (not "int") to str
Always read the error message from top to bottom.
Debugging with Print
total = 2 + 2
print("num1": 2)
print("num2": 2)
print("total", total)
Fixing the Bug:
total = 2 + 2
print("num1": 2)
print("num2: 2)
print("total", total)
num1: 2
num2: 2
total: 4
Debugging is a skill — and you're learning it.
Debugging Checklist
Read the error
Check line numbers
Use print
Fix one thing at a time
Errors don't scare me anymore.
See you in Episode 13!

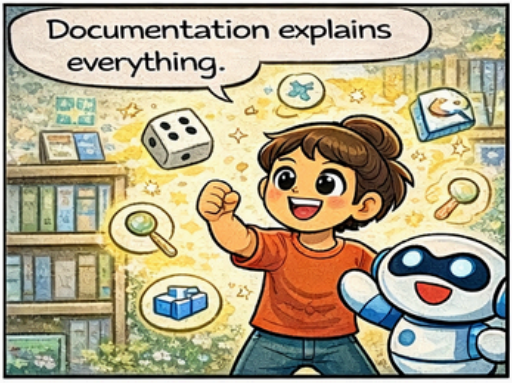
Boosting Python: Libraries & Modules

Episode 13





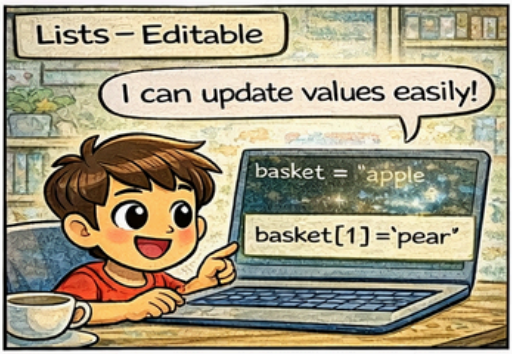


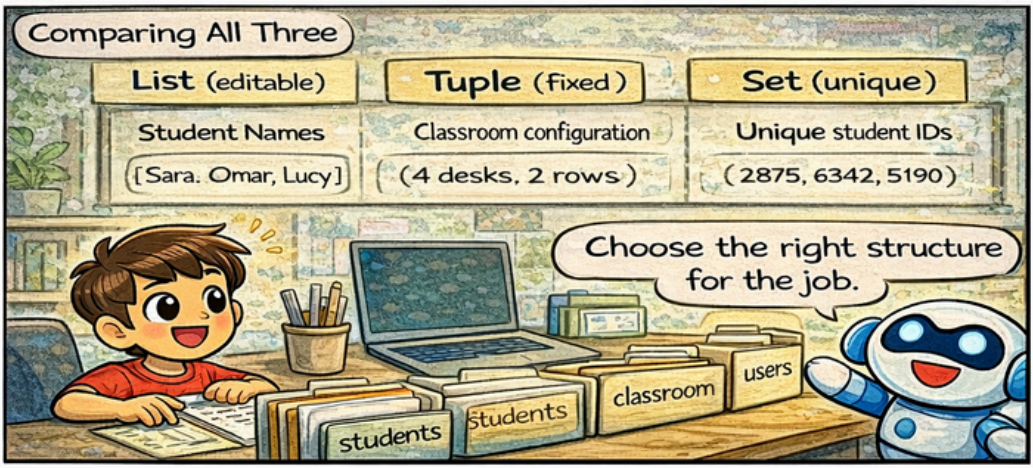


See you in Episode 14!

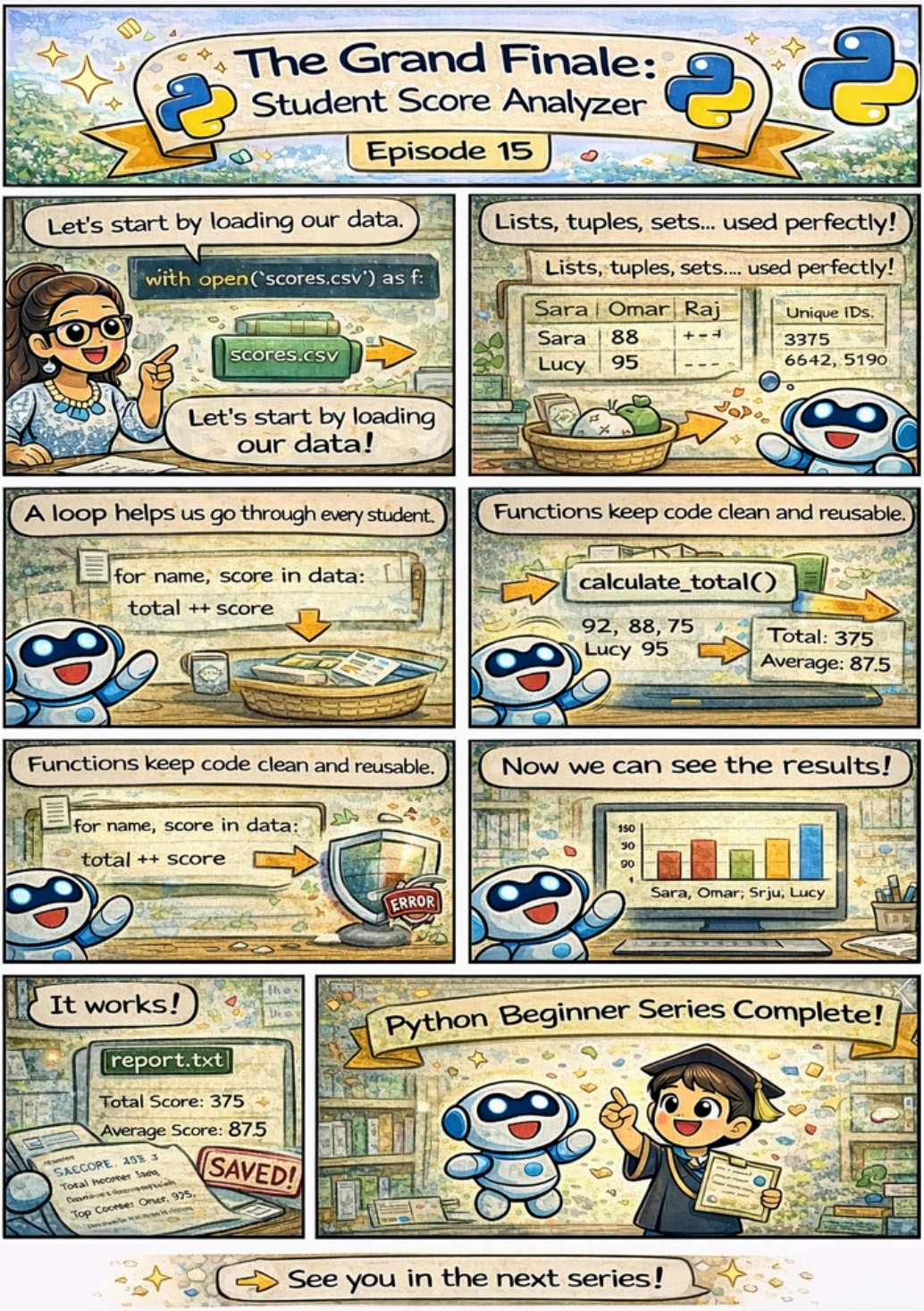
Organizing Data: Lists, Tuples & Sets

Episode 14





See you in Episode 15!


The Grand Finale:
Student Score Analyzer
Episode 15
Let's start by loading our data.
with open('scores.csv') as f:
scores.csv
Let's start by loading our data!
Lists, tuples, sets... used perfectly!
Lists, tuples, sets.... used perfectly!
Sara | Omar | Raj
Sara | 88 | +--+
Lucy | 95 | ---
Unique IDs.
3375
6642, 5190
A loop helps us go through every student.
for name, score in data:
total ++ score
Functions keep code clean and reusable.
calculate_total()
92, 88, 75
Lucy 95
Total: 375
Average: 87.5
Functions keep code clean and reusable.
for name, score in data:
total ++ score
ERROR
Now we can see the results!
150
90
Sara, Omar, Srju, Lucy
It works!
report.txt
Total Score: 375
Average Score: 87.5
SAVED!
Python Beginner Series Complete!
See you in the next series!