Python Challenge

DAY 12

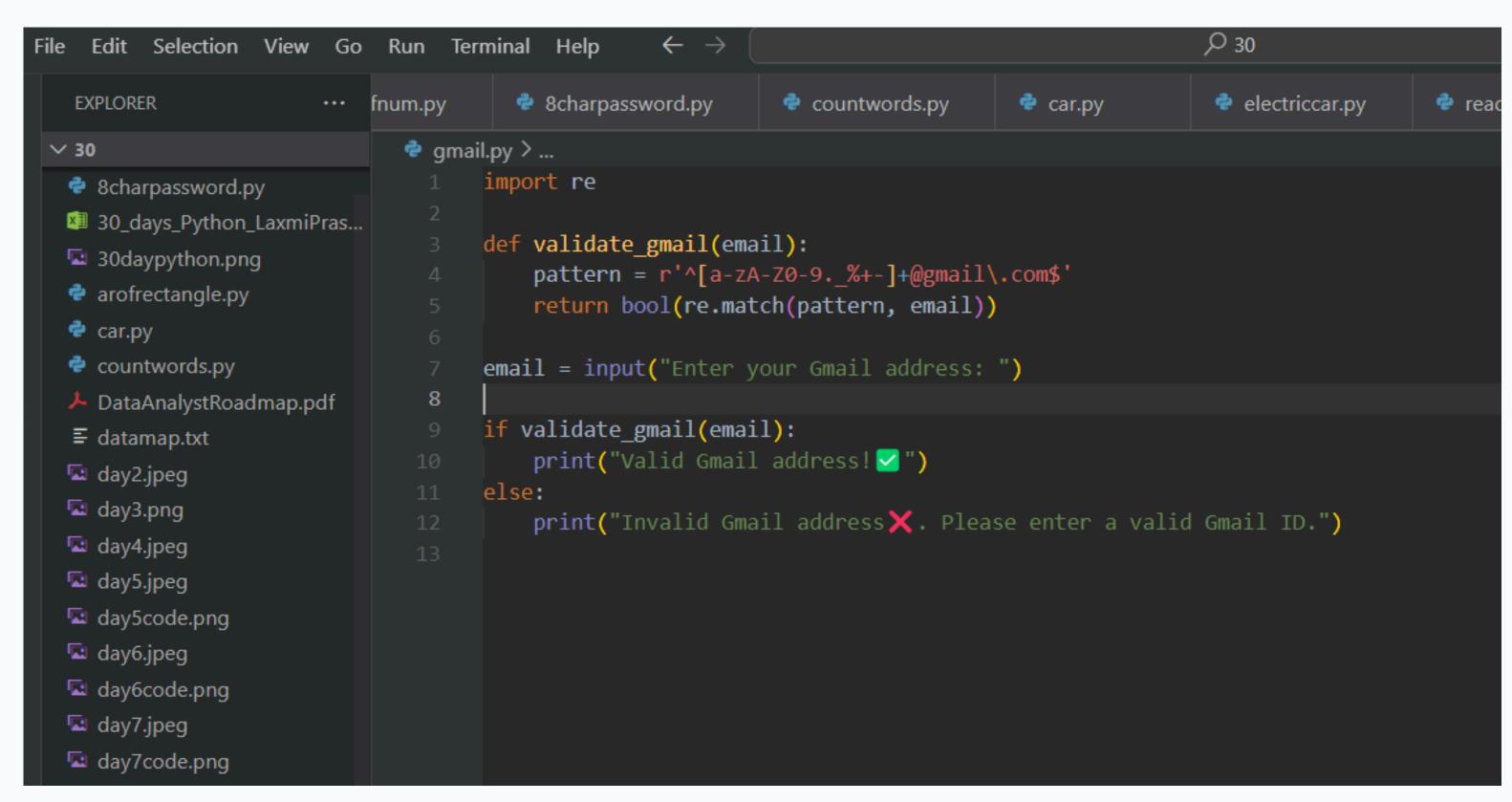
Topic: "Validating Gmail using Regex in Python 🚀"

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What is Regex?"

- It is a powerful pattern-matching tool used to **search, validate**, or **manipulate text** based on defined rules.
- It's like giving Python a template to recognize specific text formats.
- Widely used in data validation, web scraping, and text processing.
- Python provides the built-in re module to work with regular expressions easily.
- It makes complex string operations faster and more efficient than manual methods.

Python Code



Q How It Works

Import & Regex Pattern

- import re brings in Python's regex module.
- A regex pattern (^[a-zA-Z0-9._%+-]+@gmail\.com\$) is defined to match valid Gmail addresses.

Function Definition

• validate_gmail(email) checks if the input email matches the **pattern** using re.match() and returns True or False.

User Input

The program takes an email address from the user via input().

Validation Output

• It prints \square if the input is a valid Gmail address, or \times if not.

Output Example

PS C:\Users\laxmi\OneDrive\Desktop\30> & 'c:\Users\laxmi\OneDrive\Desktop\30\.venv\Scripts\python.exe' 'c:\Users\laxmi\.vscode\extensions\ms-python.debugpy-2025.8.0-win32-x 64\bundled\libs\debugpy\launcher' '51598' '--' 'c:\Users\laxmi\OneDrive\Desktop\30\gmail.py'
Enter your Gmail address! \(\text{ of 'c:\Users\laxmi\OneDrive\Desktop\30'; & 'c:\Users\laxmi\OneDrive\Desktop\30'; & 'c:\Users\laxmi\OneDrive\Desktop\30\.venv\Scripts\python.exe' 'c:\Users\laxmi\.vscode\extensions\ms-python.exe' 'c:\Users\laxmi\.vscode\extensions\ms-python.exe'

What I Learned Today

- Basics of regex and how patterns work
- ✓ How to validate Gmail addresses using Python
- ✓ Power of the re module for text automation