

Meeting Summary

Quick Recap











Asabeneh demonstrated several Python applications including a **sentiment analysis tool** and a **cat breed API**, while also discussing:

- The importance of **understanding big-picture concepts** in AI development.
- The **use of GitHub** as an essential tool for developers.

The session covered:

- Python programming concepts: **basic operations, syntax, data types, and data structures.**
- **Interactive demonstrations and discussions.**
- Guidance on using **Visual Studio Code (VS Code)** for Python development.
- A **review of students' code formatting work.**
- Announcements about **course schedule changes**, including the transition to **physical classroom lessons at Omnia.**

Next Steps for Students

-  Study the **30 Days of Python** learning material (main course resource).
-  Create **GitHub accounts** if not already done.
-  Practice using **GitHub**, as emphasized for career development.
-  Learn **Markdown** using the cheat sheet Asabeneh mentioned.
-  Go through **SQL learning materials** on W3Schools.
-  Practice using the **sentiment analysis tool** shared by Asabeneh.
-  Follow along with **Python exercises** demonstrated in class.
-  Practice Python commands in the **interactive shell** as demonstrated.
-  Maintain **consistent coding conventions** when writing Python code.
-  Review **pre-recorded materials** for lessons skipped in live sessions.

Detailed Session Summary

API and Sentiment Analysis Demo

- Asabeneh demonstrated two applications he built:
 - A **sentiment analysis tool**, which analyzes text input and displays results through a **dynamic pie chart.**
 - A **cat breed API**, which provided structured data that can be accessed and displayed across platforms.
- He shared links to both applications in the chat for participants to explore.

- Demonstrated the sentiment analysis tool.
 - Stressed the importance of **understanding concepts** rather than only repetitive coding.
 - Emphasized the significance of having a **GitHub account** for developers.
 - Highlighted the **"30 Days of Python"** learning resource.
 - Concluded with a short demo on:
 - Opening a **Python interactive shell**.
 - Checking the **Python version** in CMD.
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+ Python Basic Operations Overview

- Covered **basic operations**:
 - Addition, subtraction, multiplication, division.
 - Exponentiation, modulus, floor division.
 - Explained:
 - `%` (modulus) for remainders.
 - `//` (floor division) for whole-number quotients.
 - Square roots using exponent **0.5**.
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Python Syntax and Team Standards

- Focused on:
 - Use of quotes (single `'` vs. double `"`).
 - Print function for displaying output.
 - Key discussion points:
 - Python allows mixing quotes, but **consistency is important**.
 - Follow **team conventions and language-specific coding styles**.
 - Debugging syntax errors.
 - Using `print()` for outputting different data types.
 - Q&A: Blake asked about using different quotes in one file → possible but discouraged.
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VS Code for Python Development

- Compared **VS Code** with simpler environments (like Jupyter).
- Demonstrated:
 - Creating folders and files.
 - Navigating inside VS Code.

- Explained:
 - Difference between removing items from the **workspace** vs. **permanently deleting** files.
 - Ended with writing and saving a **simple Python program** in VS Code.
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Python Functions and Arguments Explained

- Discussed:
 - Difference between **parameters and arguments**.
 - Writing **single-line** and **multi-line comments** with **#**.
 - Purpose of comments in code.
 - Using **print()** with multiple arguments.
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Python Data Types Overview

- Covered fundamental types:
 - Numbers (integers, floats, complex).
 - Strings, booleans.
 - Lists, tuples, dictionaries, sets.
 - Highlighted:
 - Lists are **versatile** and can store multiple data types.
 - Understanding data types is **essential for programming**.
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Python Basics and Text Analysis

- Covered **booleans and strings**.
 - Demonstrated:
 - Boolean values with comparison operators.
 - String manipulation (**lower()**, **upper()**, **split()**).
 - Emphasized:
 - Importance of **indentation** in Python.
 - Installing the Python extension for better **error detection**.
 - Introduced a **future assignment**: find the **10 most frequent words** in a text.
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Python Data Structures Overview

- Discussed:
 - Lists, tuples, sets, dictionaries.

- Explained:
 - Lists are mutable, tuples are immutable.
 - Interactive Q&A: Students asked questions about **set functions** and data types.
 - Announced: Move from **remote** to **physical classroom lessons at Omnia**.
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Dictionary Data Structures Overview

- Demonstrated dictionary use with keys: name, country, city, skills.
 - Assignment:
 - Build a personal dictionary with details: education, experiences, marital status (boolean), etc.
 - Clarifications:
 - Assignments should be brought to **class for review**, not sent via Telegram.
 - Demonstrated **code formatting with backticks** on Telegram for better visibility.
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Visual Studio Keyboard and Variables

- Covered:
 - Keyboard shortcuts in VS Code.
 - Recommended **English (United States) keyboard layout**.
 - Variables:
 - Explained as **memory storage**.
 - Demonstrated variable declaration with **snake_case naming convention**.
 - Recommended **descriptive, mnemonic names**.
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Python Data Types and Manipulation

- Discussed:
 - Storing and manipulating data types (strings, integers, floats).
 - Concatenation with **+** and **f-strings**.
 - Demonstrated:
 - Calculating **BMI**.
 - Solving geometry problems (area of rectangle and circle).
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Python Code Formatting and Updates

- Reviewed students' **code formatting work** in VS Code.

- Emphasized **established practices** and clean coding habits.
 - Announcements:
 - ✕ No live session next week → use pre-recorded content or “30 Days of Python”.
 - 📅 Final session scheduled for **November 26th** → students should prepare questions.
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