

Overview of My Learning: First Steps in Coding (Week 1)

Duration: One week.

Lecture Hours: total of 6 hours.

Practical Experience: Successfully solved 28 problems, encompassing tasks from Lab, Exercise, and More Exercise sections.

Detailed Learnings:

Python Console:

- ☐ Spent time understanding and working with the Python Console, which serves as the primary interface for executing Python commands and scripts.

Data Interaction:

- ☐ Input: Gained proficiency in using Python's `input()` function. This allows for capturing information directly from the user through the console.
- ☐ Output: Became familiar with the `print()` function, a fundamental tool for displaying results, feedback, and messages to the console for the user's benefit.

Basic Arithmetic in Python:

Delved into simple calculations and understood Python's syntax for fundamental arithmetic operations, such as:

- ☐ Addition
- ☐ Subtraction
- ☐ Multiplication
- ☐ Division

Explored the significance of Python's primary numerical data types, specifically integers and floats, and observed how they influence and dictate the nature of calculations.

Data Types and Structures:

Gained insights into various fundamental data types, including:

- ☐ Strings: Textual data.
- ☐ Integers: Whole numbers.
- ☐ Floats: Decimal numbers.
- ☐ Grasped the concept of Boolean values, which are vital for decision-making and flow control in programming.

String Manipulation:

- ☐ Studied string concatenation, which allows for the merging of multiple strings.
- ☐ Delved into string formatting techniques, providing me with the ability to embed variables and structure the output in a desired manner.

Library Imports:

Introduced to the concept of Python libraries, which are pre-written pieces of code that add functionalities to the basic Python language.

Specifically, imported and explored the functionalities of:

- ☐ `math`: Provides mathematical functions and operations.
- ☐ `sys`: Grants access to Python's interpreter variables and functions related to the system.

Reflection:

Week one served as a robust foundation, ensuring I am equipped with the fundamental tools and knowledge to further my Python coding journey.

With a mix of theoretical lectures and practical tasks, I've begun to understand not just the 'how' but also the 'why' behind Python's core functionalities.

The journey ahead seems promising, and I am eager to delve deeper into this versatile language.

