Python for Prompt Engineering - 1

Let's begin the discussion by answering a few Questions on Python for Prompt Engineering - 1

Test Your Knowledge

Test your Knowledge 1

In a Python code for managing a library catalog, which Python data structure would you use to store book titles along with their corresponding authors?

A List

B Tuple

C Dictionary

D For loop

Test your Knowledge 2

Imagine you're working with a Python script to process a paragraph of text. How would you interpret the operation text[2:6] within this context?

A   Extracts characters from the 3rd to the 6th position in the paragraph

B   Retrieves characters from the 2nd to the 6th position in the paragraph

C   Gets characters from the 3rd to the 7th position in the paragraph

D   Captures characters from the 2nd to the 5th position in the paragraph

Test your Knowledge 3

In a scenario where you have a list containing student names, which Python looping statement would you typically use to go through each student's name?

A   while loop, continuously checking conditions

B   for loop, designed to iterate directly over each element in the list

C   do-while loop, typically used for iterative actions with a post-condition check

D   if-else loop, based on specific conditions

Test your Knowledge 4

You're designing a Python code to store huge set of coordinates representing points on a graph. Would you choose a list or a tuple to store these dimensions, and why?
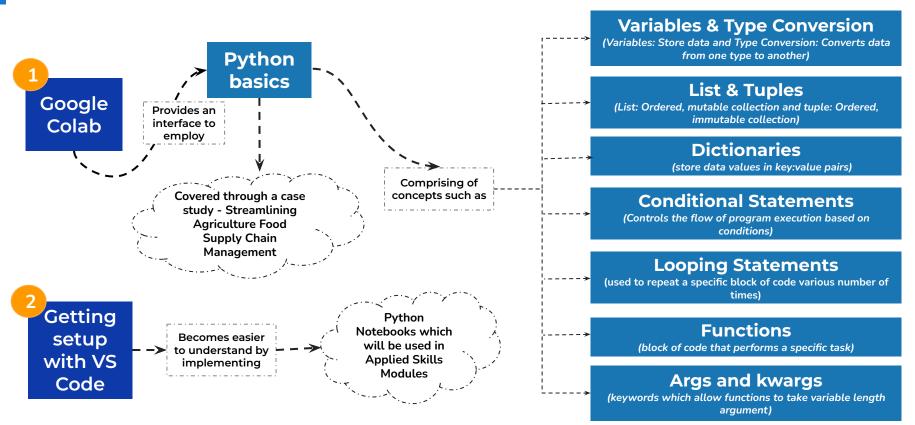
A   list, for its ability of not modifying the coordinates

B   tuple, to ensure the integrity of the coordinates and prevent accidental changes

C   list, because it is faster than tuples, hence less time - consuming

D   tuple, as it consumes more memory compared to lists

Mind Map - Mapping Learnings..

Mind Map

1 Google Colab

Python basics

Provides an interface to employ

Covered through a case study - Streamlining Agriculture Food Supply Chain Management

Comprising of concepts such as

2 Getting setup with VS Code

Becomes easier to understand by implementing

Python Notebooks which will be used in Applied Skills Modules

Variables & Type Conversion
(Variables: Store data and Type Conversion: Converts data from one type to another)

List & Tuples
(List: Ordered, mutable collection and tuple: Ordered, immutable collection)

Dictionaries
(store data values in key:value pairs)

Conditional Statements
(Controls the flow of program execution based on conditions)

Looping Statements
(used to repeat a specific block of code various number of times)

Functions
(block of code that performs a specific task)

Args and kwargs
(keywords which allow functions to take variable length argument)

Happy Learning !