LESSON 1

What is Python?

What can Python do?

Why Python?

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What can Python do?

Python is a popular programming language. It was created by Guido van Rossum, and released in 1991.

It is used for:

- web development (server-side),
- software development,
- mathematics,
- system scripting.

Why Python?

- Python works on different platforms (Windows, Mac, Linux, Raspberry Pi, etc).

- Python has a simple syntax similar to the English language.

- Python's simple syntax lets developers write programs in fewer lines compared to many other languages.

- Python uses an interpreter system, so code can be executed immediately after writing, making prototyping very fast.

Python Quickstart: Getting Started with IDLE

1. What is IDLE?

- IDLE (Integrated Development and Learning Environment) is Python's built-in editor.
- It's simple and perfect for beginners to write and run Python code.

2. How to Open IDLE:

- On **Windows**: Search for "IDLE" in the Start menu.
- On **Mac**: Open Terminal and type idle3.
- On **Linux**: Open Terminal and type idle3.

Writing Your First Program:

1. Type the following code:
         print("Hello, World!")
2. To check the Python version of the editor, you can find it by importing the sys module:
         import sys

         print(sys.version)

3. you can simply type the following to quit the python command line interface:
         exit()

Python Syntax

1. The `print` Function

- The `print` function is used to **display output** on the screen.

- You can print **text**, **numbers**, or **variables**.

  Examples:

  ```
  print("Hello, World!")  # Prints a string

  print(10)               # Prints a number

  print(3.14)             # Prints a float
  ```

2. The `input` Function

- The `input` function is used to **take input from the user**.
- It always returns the input as a **string**, so you may need to convert it to other data types.

Examples:

```
name = input("Enter your name: ")  # Takes user input

print("Hello, " + name)            # Prints the input
```

Task:

Write a Python program that asks the user for their **name** and **age**, and then prints a personalized greeting message.