Introduction to Python

1. Setting Up the Environment:

- Installing Python
- Introduction to Integrated Development Environments (IDEs) like PyCharm

2. Basic Concepts

- What is Python?
- First Python Program

3. Understanding Python's Internal Execution

- Interpreted vs. Compiled Languages
- Introduction to the Python interpreter
- Execution Steps:
 - Read Source Code
 - Convert to Bytecode:
 - The Python code is compiled into an intermediate form called bytecode.
 - Bytecode is a low-level set of instructions that is platformindependent.
 - Python Virtual Machine (PVM):
 - The compiled bytecode is executed by the Python Virtual Machine (PVM).
 - The PVM is a stack-based virtual machine that interprets the bytecode instructions.
 - Loading Modules
 - Memory Management

Hands-On Practice

- PEP8
- Simple exercises to practice variable assignments, basic operations, and string manipulations.
- Writing small programs, like a simple calculator or a program that takes user input and prints a formatted message.

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