Python Language (Theoretical & Practical)

Day-1

Python Introduction

- Installation & Configuration
- Getting Started with IDE
- Keywords & Identifiers
- Statements & Comments
- Python Variables
- Python Datatypes
- Python Type Conversion
- Python Operators

Flow Control

- Python if...else
- Python for Loop
- While Loop
- Break and Continue
- Pass Statement
- Looping Technique

Datatypes

- Python Numbers
- Python List
- Python Tuple
- Python String
- Python Set
- Python Dictionary
- Python Nested Dictionary
- List Comprehension

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Day-2

Functions
- Python Function
- Function Argument
- Return statement with multiple values
- Lambda Function
- Python Global and Local
- Python Global Keyword
- Python Package

Handling
- File Operation
- Python Directory
- Python Exception
- Exception Handling

Class and Object
- OOPs Concept
- Variables
- Methods
- Constructor
- Class and Object
- Python Inheritance
- Python Polymorphism
- Python Abstraction
- Python Encapsulation
- Overriding

Advance Concepts
- Python Iterator
- Python Generator
- Generator Expression
- Python Closure
- Python Decorator
- Python Property
- Regular Expression
- Database Connectivity in Python
- NumPy
- Pandas
- PEP8 Rules
- Virtual Environment