

Python Programming Fundamentals

1. Getting Started:

- 1) What is Python?
- 2) Comparison of Python with other languages
- 3) Salient feature of Python
- 4) Execution model of Python
- 5) Industries using Python
- 6) Job Trends

2. Introduction:

- 1) Installing Python
- 2) Python Installer
- 3) Python 2 v/s Python 3
- 4) Indentation in Python

3. Core Python:

- 1) Data Types and Variables
- 2) Numbers
- 3) Comments in Python
- 4) Strings
- 5) **Data Structure:**
 - (a) List
 - (b) Tuple
 - (c) Set
 - (d) Dictionary
 - (e) Comparison of List, Tuple and Set
- 6) **Programing Construct:**
 - (a) Control Structure
 - (b) Looping
 - (c) User-Defined and library Functions
- 7) **Input-Output:**
 - (a) Basic I/O
 - (b) File handling
- 8) **Object Oriented Python:**
 - (a) OOPS Concepts and its Implementation
(class, object, inheritance, encapsulation, polymorphism)
 - (b) Modules
 - (c) Standard Modules
- 9) **Exception Handling:**
 - (a) try-except-finally and its use cases

10) Other Useful Topic:

- (a) Lambda Function
- (b) Regular expression
- (c) Logging in Python
- (d) Multithreading in Python
- (e) Command Line Argument
- (f) famous libraries like Numpy, Pandas, Scipy
- (g) famous Development environments like Anaconda, Atom, PyCharm IDE, Python IDLE, Jupyter Notebook.

4. Advance Python:

11) Database:

PDBC (Python Database Connectivity) with SQLite/MySQL/Oracle

12) Web application development:

HTML + CSS + JavaScript + *Flask Framework*

Interview Questions discussion with assignments and Mini
Project Discussion Based on Real Time Problem

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