**Python Programming Fundamentals**

1. **Getting Started:**
2. What is Python?
3. Comparison of Python with other languages
4. Salient feature of Python
5. Execution model of Python
6. Industries using Python
7. Job Trends
8. **Introduction:**
9. Installing Python
10. Python Installer
11. Python 2 v/s Python 3
12. Indentation in Python
13. **Core Python:**
14. Data Types and Variables
15. Numbers
16. Comments in Python
17. Strings
18. **Data Structure:** 
    * + - 1. List
          2. Tuple
          3. Set
          4. Dictionary
          5. Comparison of List, Tuple and Set
19. **Programing Construct:**
    * + - 1. Control Structure
          2. Looping
          3. User-Defined and library Functions
20. **Input-Output:**
    * + - 1. Basic I/O
          2. File handling
21. **Object Oriented Python:**
    * + - 1. OOPS Concepts and its Implementation

(class, object, inheritance, encapsulation, polymorphism)

* + - * 1. Modules
        2. Standard Modules

1. **Exception Handling:**
   * + - 1. try-except-finally and its use cases

1. **Other Useful Topic:**
   * + - 1. Lamda Function
         2. Regular expression
         3. Logging in Python
         4. Multithreading in Python
         5. Command Line Argument
         6. famous libraries like Numpy, Pandas, Scipy
         7. famous Development environments like Anaconda, Atom, PyCharm IDE, Python IDLE, Jupyter Notebook.

1. **Advance Python:**
2. **Database:**

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

1. **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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