PYTHON for starters – What You Will Learn

Computational Thinking and Getting Started with PYTHON
- Computational Thinking
- Python - advantages
- Python - disadvantages
- Working in Python
- Understanding first program/Script

Python Fundamentals
- Python Character Set
- Tokens
- Bare Bones of a Python program
- Variables and Assignments
- Simple Input and Output

Data Handling
- Primitive Data type
- Python datastructure
- Concept of Mutable and Immutable Objects
- Operators
- Expressions
- Working with some standard modulus

Conditional and Iterative statements
- Statement flow control
- Designing program and development tools
- The if statements of PYTHON
- Repetition of tasks - a necessity
- The range() function
- Iteration/Looping statement

String Manipulation
- Traversing a string
- String operators
- String slicing
- String functions and methods

Functions in python
- Creating functions
- Calling a function
- Recursive function
- Iterative v/s Recursive function

Debugging programs
- Errors and exceptions
- How do debug a program

502 Sree Nilayam, Above Sampoorna Super Market, Lanco Hills Road, Manikonda, Hyderabad – 500089
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List Manipulation
- Creating an accessing list
- List operations
- Working with lists
- Lists functions and methods

Tuples
- Creating and accessing tuples
- Tuple operations
- Tuple functions and methods

Dictionaries
- Dictionary. key- value pairs
- Working with dictionaries
- Dictionary functions and methods

File Handling
- Creating a file
- Opening and closing a file
- Reading and Writing into a file
- Updating a file

Introduction to OOPS

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