

PYTHON



COURSE CURRICULUM

6 WEEKS

Introduction to Python Programming

- Why do we need Python?
- Program structure in Python

Execution steps

- Interactive Shell
- Executable or script files.
- User Interface or IDE

Memory management and Garbage collections

- Object creation and deletion
- Object properties

Data Types and Operations

- Numbers
- Strings
- List
- Tuple
- Dictionary
- Set
- Other Core Types

Statements and Syntax in Python

- Assignments, Expressions and prints
- If tests and Syntax Rules
- While and For Loops
- Iterations and Comprehensions

File Operations

- Opening a file
- Using Files
- Other File tools

Functions in Python

- Function definition and call
- Function Scope
- Arguments
- Function Objects
- Anonymous Functions

Modules and Packages

- Module Creations and Usage
- Module Search path
- Module Vs. Script
- Package Creation and Importing

Classes in Python

- Classes and instances
- Classes method calls
- Inheritance and Compositions
- Static and Class Methods
- Bound and Unbound Methods
- Operator Overloading
- Polymorphism

Exception Handling in Python Programming

- Default Exception Handler
- Catching Exceptions
- Raise an exception
- User defined exception

Thread

- Introduction to Threads in python
- Thread module
- Thread Life Cycle
- Time and Date

Network & Socket Programming

- Network Programming
- Working with XML Files
- Working with SMTP

GUI Programming in Python

- Tkinter in details

Database with Python

- MySQL Introduction
- Mysql Integration with Python

Partners :



Java



development | consultancy | training

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