



Core Python

Mode of Training: Online, Classroom, Corporate

Faculty: Mr. PHANI

Course Duration: 20 Days

A woman with dark curly hair and glasses, wearing a pink top, stands with her arms crossed in front of a large window with a grid pattern. The background is slightly blurred, showing the window's structure and light coming through.

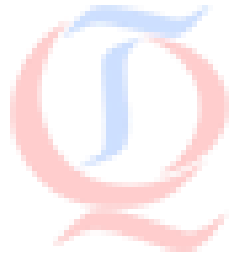
Course Curriculum

Introduction

- What Is Python?
- Why Python?
- Who uses Python?
- History of Python
- Features of Python
- Where python can be used?
- Installing python from the commandline
- IDLE
- Running python scripts on Windows/Unix/Linux

Basic Python Syntax

- Basic Syntax
- Comments
- Keywords
- Datatypes
- Naming Conventions
- Print(),Type() and Id() functions
- Input() and raw input() function
- Type Conversion functions
- Del keyword



String Handling

- What is string?
- String Indexing
- String slicing

- Basic operations
- Working with string functions

Operators

- Arithmetic operators
- Relational operators
- Logical operators
- Assignment operators
- Membership operators
- Identity operators
- Precedence of operators

Conditional statements

- if statement(One-way decisions)
- If. Else statement (Two-way decisions)
- if elif .. Else statement (Multi-Way)
- Nested if else
- Single line if else statement

Looping Statements

- While loop
- While. Else
- for loop
- Infinite loop
- Nested loops

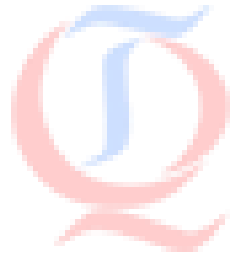
Control Statements

- Break statements

- Continue statements
- Pass statements

Collections

- Introduction to collections
- Lists
- Tuples
- Sets
- Dictionaries
- Collections indexing and slicing
- Working with methods of collections
- Iterating through collections
- Nested collections
- Getting Dictionary values
- Counting with dictionaries
- Differences between List, tuple and set



Functions

- Defining function
- Calling function
- Function parameters
- Types of arguments
- Handling return values
- Scope of variable - Global, local
- Call by value
- Call by reference

- passing collections to a function
- Lambda functions/anonymous functions
- Filter and map() functions

Modules

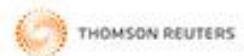
- What is module?
- Types of modules
- The import statement
- From .. Import
- Reloading module
- Dir() function
- main() function

Packages

- Introduction to packages
- __in it .py file
- Defining packages
- importing from packages
- Defining sub packages
- importing from sub packages



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