

Programming in Python

 Duration: 3 Days

 Available Languages: English German

Audience

Developers who want to learn Python programming.

Precondition

Knowledge of fundamental programming concepts.

Goals

To learn to develop and maintain effective Python programs.

Contents

- Python Overview
 - Introduction
 - Python Setup
 - Identifiers and Keywords
 - Creating and Using Variables
 - Immutable and Mutable Objects
 - Python Command Line Options
 - Executing Python Programs from Command Line
 - Functions and Arguments
 - Python Standard Library
- Flow Control Constructs
 - if/elif/else Statements
 - Looping with while and for
 - break and continue
 - Returning Values with return Statements
 - Iterators
 - yield Statement, next()
- Expressions and Operators
 - Unary and Binary Arithmetic Operations
 - Comparison and Boolean Operations
 - Conditional Expressions
 - Lambda Expressions
 - Assignments Operations
- Exceptions Handling
 - Types of Python Exceptions and Defining New Exceptions
 - Implementing Exception Handling
 - Handling Exceptions with try, except, finally
 - Triggering exceptions with raise

- Using the String Object
 - String Methods
 - Formatting String with format() function
 - String Concatenation
 - Using Escape Sequences
- Arrays, Collections and Dictionaries
 - Sequenced Data Structures – Arrays, Collections, Dictionaries
 - Creating, Accessing and Manipulating Lists
 - Tuples
 - Difference Between Lists and Tuples
 - Using Dictionaries and Dictionary Methods
 - Creating Sets and Performing Set Operations
 - Difference Between Dictionaries and Sets
- Regular Expressions
- OOP in Python
- I/O Handling
- Data Management

Booking

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