

## 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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