Python Awareness for All Training

Duration: **1 Day**

BILGINC IT Academy
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Overview

Understand how Python can be used in various domains, and how to write simple Python scripts.

This 1-day course is designed for anyone looking to get started with Python and who would benefit from an overview of Python's utility in specific domains and job roles, including:

- Programmers
- System Administrators
- Network Administrators and Engineers
- Back-end developers
- Front-end developers
- Recent Graduates

This course also introduces you to the basics of writing and running simple Python scripts, including how to use operators in order to write simple control flow statements.

Who Should Attend?

This course is an appropriate introduction to anyone looking to get started with Python, including experienced developers interested in understanding how Python can be utilized in specific domains and job roles, including:

- Programmers
- System Administrators
- Network Administrators and Engineers
- Back-end developers
- Front-end developers
- Recent Graduates

What You Will Learn

Working within an engaging, hands-on learning environment, guided by our expert instructor, students will learn to:

- Understand the evolution, features, and real-time purpose of Python
- Recognize the role of python in various fields and learn how Python helps with diversified solutions
- Install IDE and Text editors for creating and running Python scripts
- Discover python data types and use them appropriately
- Write simple logical programs with control flow statements in Python

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Outline

1. Introduction to Python
    - Python Overview & evolution
        - Role/Domain-based Python
        - Python for Web Developers - Full Stack Development
        - Python for Data Scientists
        - Python for RPA programmers
        - Python for Sys Admins and N/W Engineers
        - Python for DevOps engineer
    - Overview of the Python standard libraries and frameworks - related to the domains discussed
    - Python IDEs and Text Editors
    - Python vs Other programming languages
    - Installing Python 3.x
    - Preparing to write a Python file (*.py) - Text Editors
    - Executing a Python file
    - Python Enhancement Proposals (PEPs)
    - Python Interpreter
2. Basics of Python Programming
    - Structure of a Python Program
    - Python Statements and Control Flow
    - Built in Functions
    - Simple print statements
    - Python Variables
    - Numeric Types - Integers and Floating points
    - String
    - Booleans
    - Sequence Types
    - Generating Strings in Python
    - Common String Methods
    - Function Basics
3. Operators and Simple Control flow Statements
    - Operators and Precedence / Arithmetic Expressions
    - Relational Operators
    - Logical operators
    - Comparison Operations
    - “simple” if Statement
    - “simple” while Statement
    - “simple” for Statement