

PYTHON BASIC



ELEGANT  **TRAINING**

PYTHON

Pre - requisites

Basic Understanding of ms office
is enough to learn this course



PYTHON



About

PYTHON

Python is a high-level, interpreted programming language known for its simplicity and readability. It is widely used in web development, data science, automation, artificial intelligence, and more.

Why Learn Python?

Easy to Learn – Simple syntax, similar to English.

Versatile – Used in web development, AI, automation, data analysis, etc.

Huge Community Support – Many tutorials, forums, and open-source libraries.

Cross-Platform – Works on Windows, Mac, and Linux.



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1. INTRODUCTION TO PYTHON

What is Python?

Features of Python

Installing Python and setting up the environment

Running Python scripts

Python IDEs (IDLE, PyCharm, VS Code, Jupyter Notebook)



2. PYTHON SYNTAX AND BASICS

Writing your first Python program

Variables and data types

Comments in Python

Input and output functions (print(), input())

3. OPERATORS IN PYTHON

Arithmetic operators (+, -, *, /, //, %, **)

Comparison operators (==, !=, >, <, >=, <=)

Logical operators (and, or, not)

Assignment operators (=, +=, -=, etc.)

Identity operators (is, is not)

Membership operators (in, not in)

4. CONTROL FLOW STATEMENTS

Conditional statements (if, if-else, if-elif-else)

Looping statements (for, while)

Loop control statements (break, continue, pass)





5. DATA STRUCTURES IN PYTHON

Lists: Creation, indexing, slicing, methods (append(), remove(), etc.)
Tuples: Characteristics, indexing, methods
Sets: Unique elements, operations (union(), intersection(), etc.)
Dictionaries: Key-value pairs, methods (get(), keys(), values())

6. FUNCTIONS IN PYTHON

Function arguments (default, keyword, variable-length arguments)
Return statement
Lambda functions

7. FILE HANDLING

Reading and writing files (open(), read(), write(), close())
Working with different file modes (r, w, a, r+)

8. EXCEPTION HANDLING

Understanding errors and exceptions
Using try, except, finally blocks
Understanding __init__.py

9. BASIC PRACTICE PROJECTS

Calculator program
To-Do List
Basic file reader/writer
Simple number guessing game



10. MODULES AND LIBRARIES

Importing modules (import, from ... import)

Built-in modules (math, random, datetime)

Installing and using external libraries (pip install)

10. Object-Oriented Programming (OOP) Basics





CONTACT US

Phone : +971 4 399 7800

Mobile: +971 54 749 5664

Email: info@elegant-training.ae

Approved by KHDA



Office Number 620, AB Center, Beside
Ibis Hotel, Al Barsha 1 Near Insurance Market
Metro Station, Sheikh Zayed Road,
Dubai, UAE



- ☞ facebook.com/ElegantTrainingAE/
- ☞ instagram.com/eleganttraining/
- ☞ linkedin.com/in/eleganttrainingcenter/