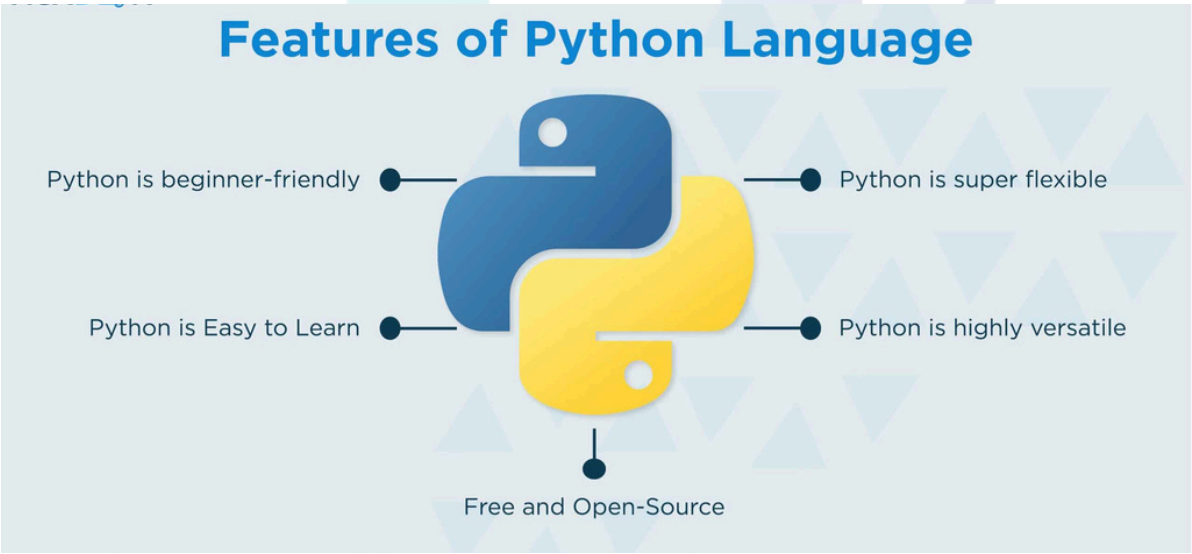
Learnomate Technologies is the Information technology company which provide training on different IT Technologies.
Out of that **Python** is the one of the technology.
Course structure design in such a way that student will learn from Basic concepts to advance.

Python is an interpreted, object-oriented programming language. Python is a high-level programming language. It is a dynamically typed language. It's high-level built-in data structures, combined with dynamic typing and dynamic binding. It is very useful for Rapid Application Development.



Course Overview

Module 1: Introduction to Python

- What is Python and history of Python?
- Unique features of Python
- Python-2 and Python-3 differences
- Install Python and Environment Setup
- First Python Program
- Python Identifiers, Keywords and Indentation
- Comments and document interlude in Python
- Command line arguments Getting User Input
- Python Data Types
- What are variables?
- Python Core objects and Functions
- Number and Maths

Module 2: Control Statements

- if-else
- if-elif-else
- while loop
- for loop
- break
- continue
- assert
- pass
- return

Module 3: List, Ranges & Tuples in Python

- Introduction
- Lists in Python
- More about Lists
- Understanding Iterators
- Generators, Comprehensions and Lambda Expressions
  - Introduction
  - Generators and Yield
  - Next and Ranges
- Understanding and using Ranges
- More About Ranges
- Ordered Sets with tuples

Module 4: Python Dictionaries and Sets

- Introduction to the section
- Python Dictionaries
- More on Dictionaries
- Sets
- Python Sets Examples

Module 5 : Input and Output in Python

- Reading and writing text files
- writing Text Files
- Appending to Files and Challenge
- Writing Binary Files Manually
- Using Pickle to Write Binary Files

Module 6 : Python built in function

- Python user defined functions
- Python packages functions
- Defining and calling Function
- The anonymous Functions
- Loops and statement in Python
- Python Modules & Packages

Module 7 : Python Object Oriented

- Overview of OOP
- The self variable
- Constructor
- Types Of Variables
- Namespaces
- Creating Classes and Objects
- Inheritance
- Types of Methods
    - Instance Methods
    - Static Methods
    - Class Methods
- Accessing attributes
- Built-In Class Attributes
- Destroying Objects
- Abstract classes and Interfaces
- Abstract Methods and Abstract class
- Interface in Python
- Abstract classes and Interfaces

Module 8: Exceptions

- Errors in Python
- Compile-Time Errors
- Runtime Errors
- Logical Errors
- What is Exception?
- Handling an exception
- try....except...else
- try-finally clause
- Argument of an Exception

- Python Standard Exceptions
- Raising an exceptions
- User-Defined Exceptions

Module 9: Python Regular Expressions

- What are regular expressions?
- The match Function
- The search Function
- Matching vs searching
- Search and Replace
- Extended Regular Expressions
- Wildcard

Module 10: Python Multithreaded Programming

- What is multithreading?
- Difference between a Process and Thread
- Concurrent Programming and GIL
- Uses of Thread
- Starting a New Thread
- The Threading Module
- Thread Synchronization
  - Locks
  - Semaphore
- Deadlock of Threads
- Avoiding Deadlocks
- Daemon Threads

Module 11: Using Databases in Python

- Python MySQL Database Access
- Install the MySQLdb and other Packages
- Create Database Connection
- CREATE, INSERT, READ Operation
- DML and DDL Oepration with Databases

Module 12: Data Science Using Python

- **Numpy:**
  -Introduction to numpy
  -Creating arrays
  -Indexing Arrays
  -Array Transposition
  -Universal Array Function
  -Array Processing
  -Array Input and Output
- **Pandas:**
  -What are pandas?
  -Where it is used?
  -Series in pandas
  -Index objects
  -Reindex
  -Drop Entry
  -Selecting Entries
  -Data Alignment
  -Rank and Sort
  -Summary Statics
  -Index Hierarchy
  -Matplotlib: Data Visualization
  -Python for Data Visualization
  -Welcome to the Data Visualization Section
  -Introduction to Matplotlib

Module 13: Graphical User Interface

- GUI in Python
- Button Widget
- Label Widget
- Text Widget

TRAINING HIGHLIGHTS

- **Recording Access shared to students on Learnomate App**
- **Professional Resume building by Industrial working mentors**
- **Placement assistance/Job requirement notification support/HR contacts**
- **Training Certificate: Receive a recognized certificate upon course completion**
- **LinkedIn, Naukri.com Profile: Enhance your online presence with professionally curated profiles.**
- **Flexible Learning Options: Choose between offline and online training to suit your schedule.**
- **Interview Preparation, Mock Interviews: Nail your interviews with our tailored preparation and mock interview sessions**
- **Real-time Scenarios Explained: Learn through practical examples to master real-world applications.**
- **❓ Doubt Sessions: Clarify your doubts through dedicated doubt-clearing sessions.**

CONTACT DETAILS

If you required any further information, please fill free to contact us.

Learnomate Technologies Pvt. Ltd

- **Main Branch:**

(Sai Luxuria, Office No 15, 3rd Floor,Bhumkar Chowk,
Wakad, Pune, Maharashtra, 411057 India)

Contact Details:

Call/WhatsApp: +91 7757062955
+91 7822917585
Email: info@learnomate.org

- **Kalewadi Branch.**

Office no.216, Solitaire business hub, 2nd floor, Kaspate Wasti, Wakad, Pune, Maharashtra 411057

Contact Details:

Call/WhatsApp: +91 8983069523

Email: info@learnomate.org

- **Hyderabad Branch**

4th Floor, GKB Opticals Building, opposite to westsides himayat nagar, Hyderabad, Telangana 500029

Contact Details:

Call/WhatsApp: +91 75585 04681 / +91 7558237682

Email: hyd@learnomate.org / info@learnomate.org

LEARNOMATE TECHNOLOGIES

www.learnomate.org

A Steps towards the bright future

THANK YOU

FOLLOW US

https://www.youtube.com/@learnomate

https://www.linkedin.com/company/learnomatetechnologies/

https://www.facebook.com/learnomate

https://www.instagram.com/learnomate/

+91 7757062955, +91 8983069523

info@learnomate.org