



GLOBAL EDUCATION & TECHNOLOGY

Think Big, Just Click.

G++ IN ADVANCE PYTHON

COURSE DURATION:240 HRS

COLLECTIONS

- Introduction
- Lists
- Tuples
- Sets
- Dictionaries
- Sorting Dictionaries
- Copying Collections
- Summary

FUNCTIONS

- Introduction
- Defining Your Own Functions
- Parameters
- Function Documentation
- Keyword and Optional Parameters
- Passing Collections to a Function
- Variable Number of Arguments
- Scope
- Functions – “First Class Citizens”
- Passing Functions to a Function
- Mapping Functions in a Dictionary
- Lambda
- Closures





MODULES

- Modules
- Standard Modules – sys
- Standard Modules – math
- Standard Modules – time
- The dir Function

EXCEPTIONS

- Errors
- Run Time Errors
- The Exception Model
- Exception Hierarchy
- Handling Multiple Exceptions
- Raise
- Assert
- Writing Your Own Exception Classes

INPUT AND OUTPUT

- Introduction
- Data Streams
- Creating Your Own Data Streams
- Access Modes
- Writing Data to a File
- Reading Data From a File
- Additional File Methods
- Using Pipes as Data Streams
- Handling IO Exceptions
- Working with Directories
- Metadata
- The pickle Module

CLASSES IN PYTHON

- Classes in Python
 - Principles of Object Orientation
 - Creating Classes
 - Instance Methods
 - File Organization
 - Special Methods
 - Class Variables
-
- Inheritance
 - Polymorphism

- Type Identification
- Custom Exception Classes
- Class Documentation – pydoc



REGULAR EXPRESSIONS

- Introduction
- Simple Character Matches
- Special Characters
- Character Classes
- Quantifiers
- The Dot Character
- Greedy Matches
- Grouping
- Matching at Beginning or End
- Match Objects
- Substituting
- Splitting a String
- Compiling Regular Expressions
- Flags

Tkinter (Graphical User Interface)

- Building Your First Python GUI Application With Tkinter
- Adding a Widget
- Working With Widgets
- Displaying Text and Images With Label Widgets
- Displaying Clickable Buttons With Button Widgets
- Getting User Input With Entry Widgets
- Getting Multiline User Input With Text Widgets
- Assigning Widgets to Frames With Frame Widgets
- Adjusting Frame Appearance With Reliefs
- Understanding Widget Naming Conventions
- Controlling Layout With Geometry Managers
- pack() Geometry Manager
- place() Geometry Manager
- grid() Geometry Manager
- Making Your Applications Interactive
- Using Events and Event Handlers
- Using bind()



NumPy -Numerical Python

- How does NumPy where work?
- 2D matrices
- Multidimensional array
- Using the result as an index
- Parameters 'x' and 'y'
- Apply on Pandas DataFrames
- Multiple conditions
- Nested where (where within where)
- Finding rows of zeros
- Finding the last occurrence of a true condition

Using on DateTime data

Matplotlib (Plotting Graphs Using pyplot)

- Plot Types
- Line Plot
- Histograms
- Paths
- Streamplot
- Bar Charts
- Vertical Line, Horizontal Line, Multiple Lines
- Multiple Plots

MISCELLANEOUS

- Iterable and Iterator
- yield Keyword
- Python Generators
- Python Closures
- Python Decorators
- @property Decorator in Python
- Assert Statement

What is Multitasking

- Process based and Thread based Multitasking
- Applications of Multithreading
- How to implement Multithreading in Python?
- Different Ways to Create a Thread in Python
- Creating a Thread using Thread class



- Creating a Thread class by inheriting Thread class
- Advantages of multithreading in Python
- Naming a Thread in Python

Python MySQL

- Create Database – Python MySQL
- Create Table – Python MySQL
- Insert Data in Table
- Select Data from Table
- Update data in Table
- Delete data from Table
- Drop Table from Database
- WHERE clause – Python MySQL
- Order By clause – Python MySQL
- Limit clause – Python MySQL
- Table Joins – Python MySQL

Python and MySQL Database connectivity

- Installing MySQL Connector/Python
- Establishing a Connection With MySQL Server
- Establishing a Connection
- Creating a New Database
- Connecting to an Existing Database
- Creating, Altering, and Dropping a Table
- Defining the Database Schema
- Creating Tables Using the CREATE TABLE Statement
- Showing a Table Schema Using the DESCRIBE Statement
- Modifying a Table Schema Using the ALTER Statement
- Deleting Tables Using the DROP Statement
- Inserting Records in Tables

Data Manipulation with Pandas

- Pandas in Python
- How to Install Pandas
- Data Frame is by importing a csv file using Pandas.
- How to Read Excel Files to Pandas Data frames
- Setting the Index Column when Reading xls File
- Importing an Excel File to Pandas in Two Easy Steps:
- Pandas Read Excel: How to Read All Sheets
- Setting the Data Type for Data or Columns
- Writing Pandas Data Frames to Excel



- Using execute()
- Using execute many()
- Reading Records From the Database
- Reading Records Using the SELECT Statement
- Filtering Results Using the WHERE Clause
- Handling Multiple Tables Using the JOIN Statement
- Updating and Deleting Records From the Database

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