PYTHON

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PRE-REQUISITE

- C, C++ Programming
- SQL

MODULE 1 [Core Python Concepts]
- Introduction of Python
- Programming Style
- Conditional Statements
- If, If- else, Nested if-else
- Looping, For, While, Nested loops
- Control Statements, Break, Continue, Pass
- String Manipulation
- Accessing Strings
- Basic Operations
- String slices
- Function and Methods

MODULE 2 [Collections]
- List
  - Introduction
  - Accessing list
  - Operations
  - Working with lists
  - Function and Methods
- Tuple
  - Introduction
  - Accessing tuples
  - Operations
  - Working
  - Functions and Methods
- Dictionaries
  - Introduction
  - Accessing values in dictionaries
  - Working with dictionaries
  - Properties
  - Functions

MODULE 3 [Functions]
- Defining a function
- Calling a function
- Types of functions
- Function Arguments
- Anonymous functions
- Global and local variables

MODULE 3 [Modules]
- Importing module
- Math module
- Random module
- Packages
- Composition

MODULE 5 [Input-Output]
- Printing on screen
- Reading data from keyboard
- Opening and closing file
- Reading and writing files
- Functions

MODULE 6 [Exception Handling]
- Exception
- Exception Handling
- Except clause
- Try ? finally clause
- User Defined Exceptions

MODULE 7 [OOPs concept]
- Class and object
- Attributes
- Inheritance
- Overloading
- Overriding
- Data hiding

MODULE 8 [Regular expressions]
- Match function
- Search function
- Matching VS Searching
- Modifiers
- Patterns

MODULE 9 [CGI]
- Introduction
- Architecture
- CGI environment variable
- GET and POST methods
- Cookies
- File upload

MODULE 10 [Networking]
- Socket
- Socket Module
- Methods
- Client and server
- Internet modules
MODULE 11 [Multithreading]
- Thread
- Starting a thread
- Threading module
- Synchronizing threads
- Multithreaded Priority Queue

MODULE 12 [GUI Programming]
- Introduction
- Tkinter programming
- Tkinter widgets
- Designing
- HTML
- CSS
- JavaScript
- Ajax

MODULE 13 [Database]
- Introduction
- Connection Steps
- Executing queries
- Transactions
- Handling error
- CRUD Operation Using Tkinter with MVC Pattern

MODULE 14 [Django Framework]
- Introduction
- Environment Setup
- Creating App
- Admin Panel
- URL Pattern
- Django ORM
- WebApp Development
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