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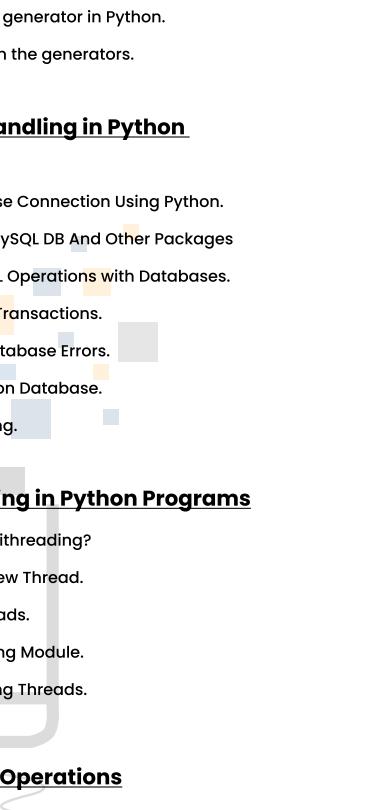
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PYTHON

COURSE CONTENTS

- ⌚ An Introduction To Python
- ⌚ Program Flow Control
- ⌚ List, Ranges, Dictionaries, Tuples and Sets in Python
- ⌚ File Input and Output in Python
- ⌚ Object Oriented Programming in Python
- ⌚ Exception Handling in Python
- ⌚ Testing and Debugging Python Programs
- ⌚ Database Handling in Python Program
- ⌚ Multithreading in Python Programs
- ⌚ Python List Operations
- ⌚ Types of errors
- ⌚ Decorators in python
- ⌚ Generators in python



Python

An Introduction To Python

- What Is Python And History Of Python?
- Features Of Python.
- Installation and Working with Python.
- Introduction to Python IDLE.
- Understanding Python variables.
- Rules for defining Python Variables.
- Python basic Operators.
- Python Identifiers, Keywords and Indentation.
- Understanding Python blocks.
- Importance of Indentation in Python.
- Command line arguments.
- Getting User Input.
- Python Data Types.
- What are Variables?
- Python Core Objects and Functions.

List, Ranges, Dictionaries, Tuples and Sets in Python

- Introduction.
- Lists in Python
- Understanding Iterators
- Generators, Comprehensions and Lambda Expressions
- Generators and Yield
- Next and Ranges
- Understanding and using Ranges?
- Python Dictionaries
- Dictionary manipulation.
- Ordered Sets with types
- Sets
- Python Sets Examples

File Input and Output in Python

- Reading And Writing Text Files.
- Reading Config Files in Python.
- Writing log files in python.

• understanding read functions, (read), (readline), (readlines), (write), (ab writelines)

- Writing Binary Files Manually.
- Using Pickle to Write Binary Files.
- Manipulating file pointer using seek.

Program Flow Control

- Conditional Blocks Using If, Else And Else If

- For Loops In Python.

- For loop using ranges, string, list and dictionaries.

- Use of while loops in python.

- Loop manipulation using pass, continue, break and else.

- Difference between pass Vs Continue Vs break

- Programming using python conditional and loops block.

Testing and Debugging Python Programs

- Debug Python Programs Using Pd Debugger.

- Testing With Python Using Unit Test.

- Assert for debugging.

- Iterable and generator in Python.

- Yielding from the generators.

Database Handling in Python Program

- SQL Database Connection Using Python.

- Install The MySQL DB And Other Packages

- DML and DDL Operations with Databases.

- Performing Transactions.

- Handling Database Errors.

- Disconnection Database.

- Web Scraping.

Multithreading in Python Programs

- What Is Multithreading?

- Starting A New Thread.

- Forking threads.

- The Threading Module.

- Synchronizing Threads.

Python List Operations

Types of errors

Decorators in python

Generators in python

Object Oriented Programming in Python

- OOPS Concepts.

- Concept Of Class, Object And Instances.

- Constructor, class attributes and destructors.

- Accessing attributes, Built-In Class Attributes.

- Inheritance.

- Types of Inheritance

- Polymorphism (overlapping and overloading operators).

- Duck typing.

- Abstraction.

- Abstract class.

- Encapsulation.

- Private & Protected attributes.

Exception Handling in Python

- Exceptions Handling introduction.

- Avoiding Code Break Using Exception Handling.

- Handling various exceptions using try.....except....else.

- Multiple except blocks.

- Try-finally clause.

- Try-finally with return statement.

- Argument of an Exception and create self-exception class

- Raising an exceptions, User-Defined Exceptions.

- Custom Exception Class

- Raising Custom Exception

Career Support

- Exceptions Handling introduction.

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