

# Live Python Training

## Introduction to Python

What is Python?

WHY PYTHON?

History

Features – Dynamic, Interpreted, Object oriented, Embeddable, Extensible, Large standard libraries, Free and Open source

Why Python is General Language?

Limitations of Python

## Python Language Fundamentals

Keywords

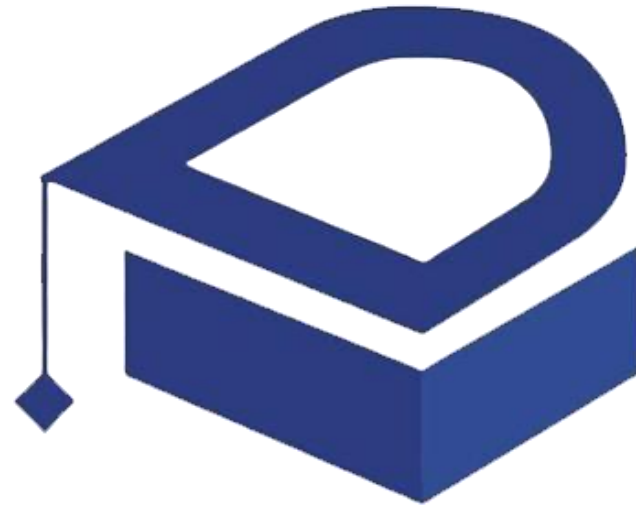
Identifiers

variables

Data types

Python VS JAVA

Python Syntax



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## Operators

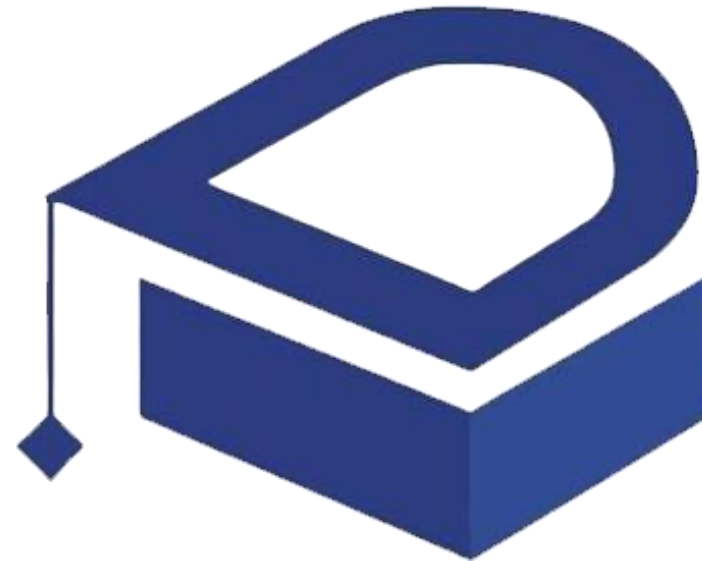
- Arithmetic Operators
- Comparison Operators
- Python Assignment Operators
- Logical Operators
- Bitwise Operators
- Shift operators
- Membership Operators
- Identity Operator

## Strings

- What is string
- Representation of Strings
- Processing elements using indexing
- Processing elements using Iterators
- Manipulation of String using Indexing and Slicing
- String operators
- Methods of String object
- String Formatting
- String functions
- String Immutability

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## List Collection

What is List

Need of List collection

Different ways of creating List

List comprehension

List indices

Processing elements of List through Indexing and Slicing

List object methods

List is Mutable

Mutable and Immutable elements of List

Nested Lists

List\_of\_lists

## Tuple Collection

What is tuple?

Different ways of creating Tuple

Method of Tuple object

Tuple is Immutable

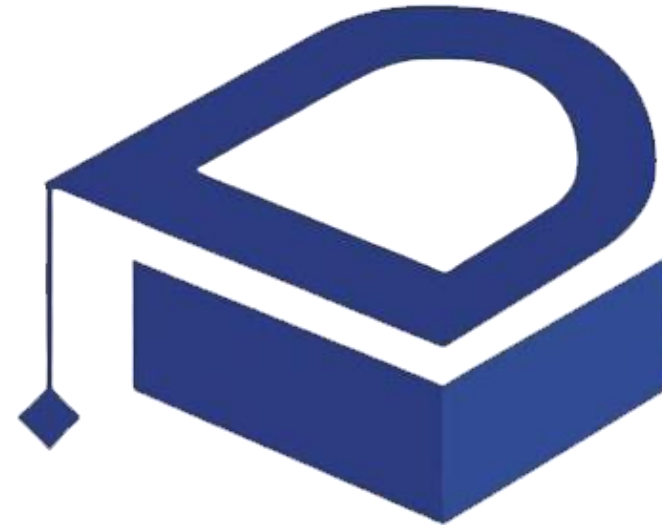
Mutable and Immutable elements of Tuple

Process tuple through Indexing and Slicing

List v/s Tuple

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## Set Collection

What is set?

Different ways of creating set

Difference between list and set

Accessing elements of set

Python Set Methods

Python Set Operations

Union of sets

functions and methods of set

Python Frozen set

Difference between set and frozenset ?

## Dictionary Collection

What is dictionary?

Difference between list, set and dictionary

How to create a dictionary?

Accessing values of dictionary

Python Dictionary Methods

Copying dictionary

Updating Dictionary

Reading keys from Dictionary

Reading values from Dictionary

Reading items from Dictionary

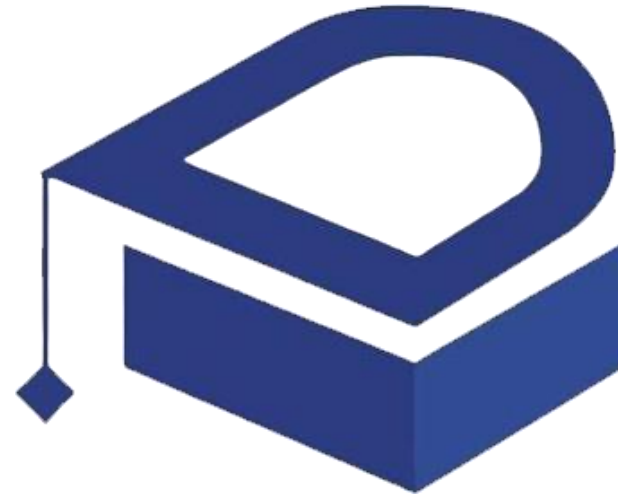
Delete Keys from the dictionary

Sorting the Dictionary

Python Dictionary Functions and methods

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# Functions

What is Function?

Advantages of functions

Syntax and Writing function

Calling or Invoking function

Classification of Functions

Lambda functions/Anonymous functions

map()

filter()

reduce()

Non local variables, global variables

## Python Modules

Importance of modular programming

What is module

Types of Modules – Pre defined, User defined.

User defined modules creation

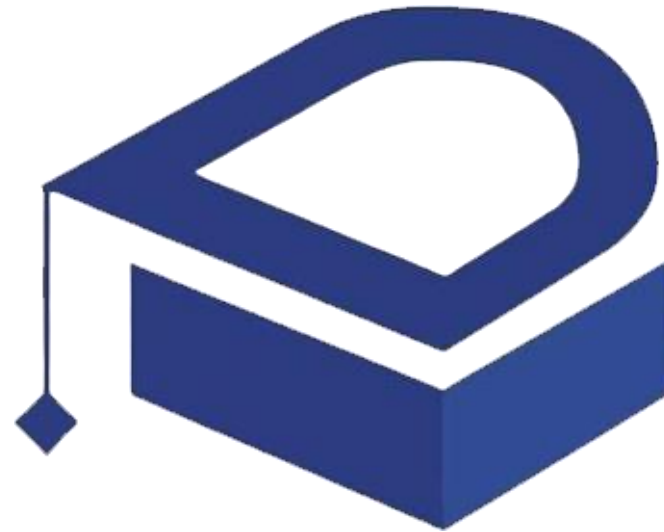
Functions based modules

Import module

From ... import

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Control Flow statements

## Contional statements

if  
if else  
if elif  
nested if

## Loops

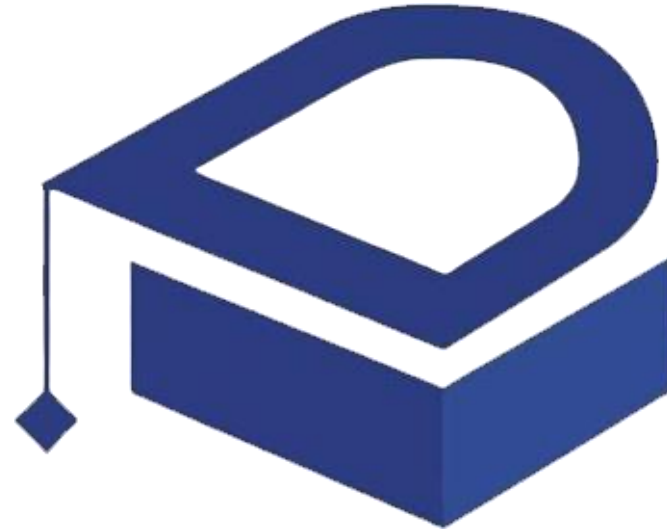
for  
while

## Transfer statements

break  
continue

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# OOPS

Procedural v/s Object oriented programming

Principles of OOP – Encapsulation , Abstraction (Data Hiding)

Classes and Objects

How to define class in python

Types of variables – instance variables, class variables.

Types of methods – instance methods, class method, static method

self' reference variable

Encapsulation(Data Binding)

What is polymorphism?

Overriding

i) Method overriding

ii)Constructor overriding

Overloading

iii)Method Overloading

iv)Constructor Overloading

inheritance – single , multi level, multiple, hierarchical and

hybrid inheritance and Diamond inheritance

Constructors in inheritance

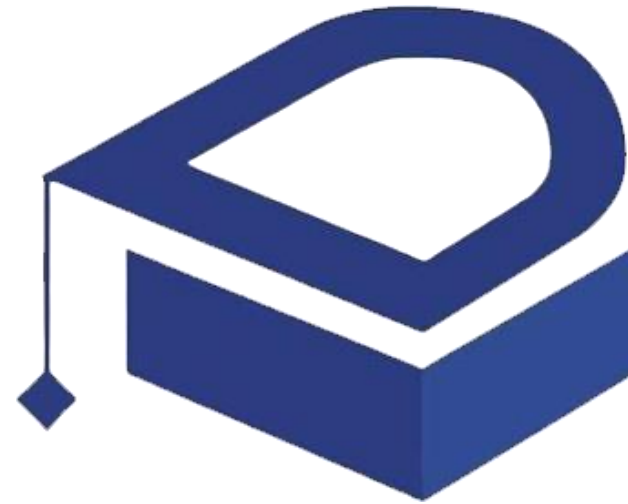
Object class

super()

Abstraction

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## Exception Handling

Types of Errors

What is Exception?

Why exception handling?

Syntax error v/s Runtime error

Try with multi except

Handling multiple exceptions with single except block

Finally block

Try-except-finally

Try with finally

Raise keyword

Custom exceptions / User defined exceptions

Need to Custom exception

## File & Directory handling

Introduction to files

Opening file

File modes

Reading data from file

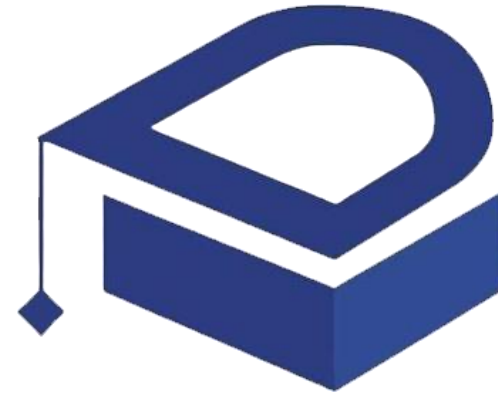
Writing data into file

Appending data into file

Line count in File

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# Advanced concepts

Decorators

Iterators

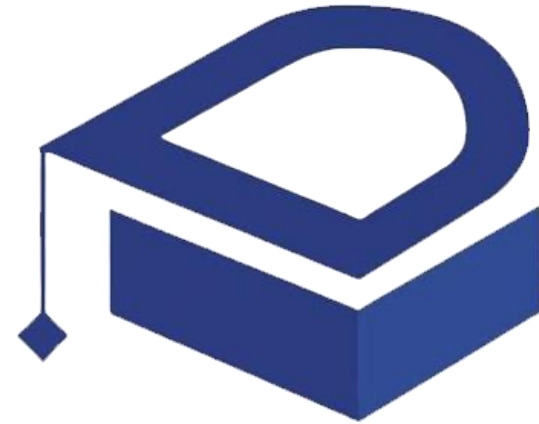
Generators

Multithreading

Regular Expressions

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## Project on Webscrapping

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