Dhaapps Basics to Advance 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?
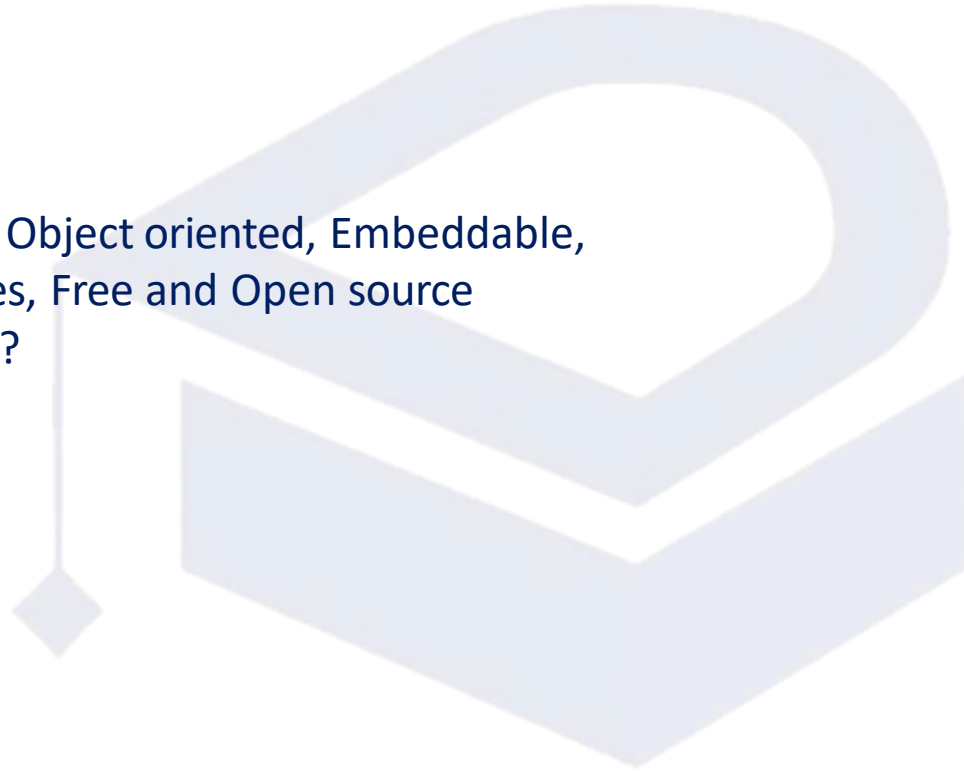Limitations of Python

Python Language Fundamentals
Keywords
Identifiers
variables
Data types
Python VS JAVA
Python Syntax

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

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

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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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

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

Advanced concepts

Decorators

Iterators

Generators

Multithreading

Regular Expressions

Web Scrapping Project

Gui Programming using Tkinter,turtle

Python for Datascience

- Numpy
- Pandas
- matplotlib

GUI based Projects
Data Analysis using Python Project

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