Python Crash Course for Beginners syllabus

Class Room or online Training

Start From: 3rd April to 14th April
1hr Daily (Mon – Fri)
Timings **5pm to 6pm** and **6pm to 7pm**

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WhatsApp

Introduction to python

- What is python
- The Birth of Python
- Features of Python
- Versions of Python
- Python distributions

Introduction to script

- What is script
- What is program
- Types of script
- Types of programming languages

The Python Environment

- Installation of Python on windows,MAC,LINUX
- Setting path for Python
- Python Documentation
- Getting Help
- Python Command line Shell ,Editors and IDE's
- Basic Syntax
- Running Python Script on WINDOWS
- Running Python Script on LINUX
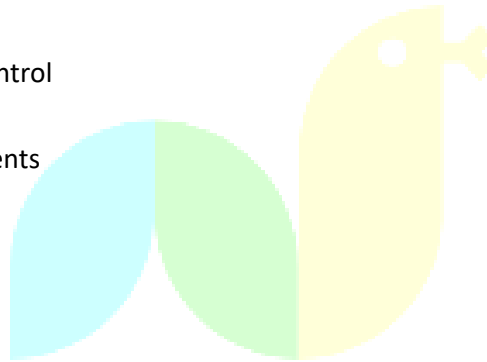- Working with IDLE

Getting Started

- Keywords v Data Types
- Static Data Types versus Dynamic Data Types
- Fundamental Data Types
- Collection Types
- Number systems
- Mutable objects versus Immutable Objects
- Variables
- Naming Conventions
- Print(),Type() and Id() Functions
- Input() and raw_input() functions
- Type Conversion functions

Operators

- Arithmetic Operators
- Relational Operators
- Logical Operators
- Assignment Operators
- Short Hand Assignment Operators
- Bitwise Operators
- Membership Operators
- Identity Operators
- Precedence of operators
- Evaluating expressions

Flow Control

- About Flow Control
- Elements of flow control
- Block/Clause
- Conditional Statements
  > Simple if
  > if…else,
  > if…elif…else
- Looping Statements
  > while loop
  > while … else
  > for loop
  >for …else
  > using range() in for loop
  > working with infinite loops and nested loops
- Break statement
- Continue statement
- Pass statement

String Handling

- What is String?
- Single-quoted string literals
- Triple-quoted string literals
- String Indexing
- String Slicing
- Working with String Functions
- Working with String Methods
- Reversing a string
- String multiplication and concatenation

Collections

List:
- Lists are mutable
- Getting to lists
- List indices
- Traversing a list
- List operations
- List slices
- List methods
- Map, Filter and reduce
- Deleting elements
- Lists and strings

Tuple:
- Advantages of Tuple over List
- Packing and Unpacking
- Comparing Tuples
- Creating nested tuple
- Using tuples as keys in dictionaries
- Deleting tuples
- Slicing Of Tuple
- Tuple Membership Test
- Built-in function with Tuple

Set:
- How to create a set?
- Iteration Over Sets
- Python set Methods
- Python Set Operations
- Union Of sets
- Built –in Functions with set

Dictionary:
- How to create a dictionary?
- Python Hashing?
- Python Dictionary Methods
- Copying DIctionary
- Updating dictionary
- Delete keys from the dictionary
- Dictionary items() Method

Functions

- Defining a function
- Calling a function
- Function Parameters
- Types of parameters
  > default parameters
  > non default parameters
  > key word arguments
  > non key word arguments
  > arbitrary arguments
- Return statement in functions
- Handling return values
- Global variables and Local variables
- Scope of global variables and local variables
- Passing collections to a function

Will Provide

1. Class room running Notes
2. Soft copy of Notes
3. Lab Assignments (Daily)
4. Weekends if they have any extra droughts

Please do contact on my Mobile or Email

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