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Techdata Solution

Training - Staffing - Consulting
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Coding in Python

ABOUT THE COURSE

The Course, CODING IN PYTHON designed to provide knowledge & skills to enable the student, a finest Industry oriented Python Developer, with an easy and entertaining method of fast learning! Take advantage of one of the most powerful, effective and intuitive programming languages ever! Python is extremely simple to learn, yet very powerful! That is why so many big players like Google, Yahoo, Dropbox and even NASA are using it!. There will be well-designed challenging, practical and focused hands-on exercises.

WHAT MAKES PYTHON UNIQUE

- Python is one programming language, one can do end to end development ranging from Scripting/Automation - Software Development - Web development. It is a wholesome language.
- Python is among very few languages with extremely low syntactic overhead giving it tremendous expressive powers.
- Many other features which includes overlapping featureset, like generator expressions, optimal performance of iterators, meta classes to increase class customization etc...
- Of course, an open source (FREE).



WHO CAN JOIN

- Software Engineers, who are into ETL/Programming/Bigdata and exploring for great job opportunities globally.
- Managers, who are looking for the best technology supplement to implement their projects/products in the organization, to limit challenges of challenges.
- Any Graduate/Post-Graduate, who is aspiring a great career towards the promising technologies.

WHY TECHDATA SOLUTION

- Industry savvy trainer with real time experience with the technology
- Implemented an effective teaching methodology to enable easy & fast learning
- Job oriented course design
- Limited Students per Batch, to enable more attention to every trainee
- Interactive learning at learners convenience



MODES OF TRAINING

- **Weekend Batch:** Weekend batches will be having classes one day per week for 3-4hrs each. You can join either Saturday/Sunday batch.
- **Fast Track:** You can attend daily, so that you can complete the course in 1/5th of the time.
- **Online Training:** If you can't attend the classroom sessions, you can register for our online sessions.
- **Corporate Training:** We customize the course according to your project requirements & train the engineers of your organization.

TECHDATA SOLUTION'S METHODOLOGY



Pre-destined Schedule



Individual Learning Plan



Needed Softwares



Ppts, Hands-on Exercises



Personalized Feedback



Classroom Teaching



Mock Interview



Certificate



Soft copy & Hard copy of Books



WHAT WE PROVIDE

Once you register for course at Techdata Solution, you are eligible for the following services from us:

- Class room training – Theory classes supplemented with Practicals.
- All the presentations used during the classroom teaching & other material.
- Set of hands-on exercises with detailed step-by-step procedures to solve them.
- All softwares that are needed to work-out the Hands-on exercises.
- Interview questions that are recently & frequently asked by the employers.
- Customized Learning plan, based on your background
- Certificate of Course completion & Star performance
- If you have any queries even after completion of the course, you can call/mail/meet us directly, we will be there to help you out

COURSE CURRICULUM



Getting Started with Python



- Introducing Python
- Installing Python on Windows
- Introducing Python IDLE
- Programming in Interactive Mode
- Programming in Scripting Mode



Types, Variables and Input/Output



- Using quotes and escape character
- String Concatenation and Repeater Operators
- Using Mathematical Operators with Numbers
- Understanding Variables
- Getting User Input with input()
- Using Strings Methods
- Converting Values



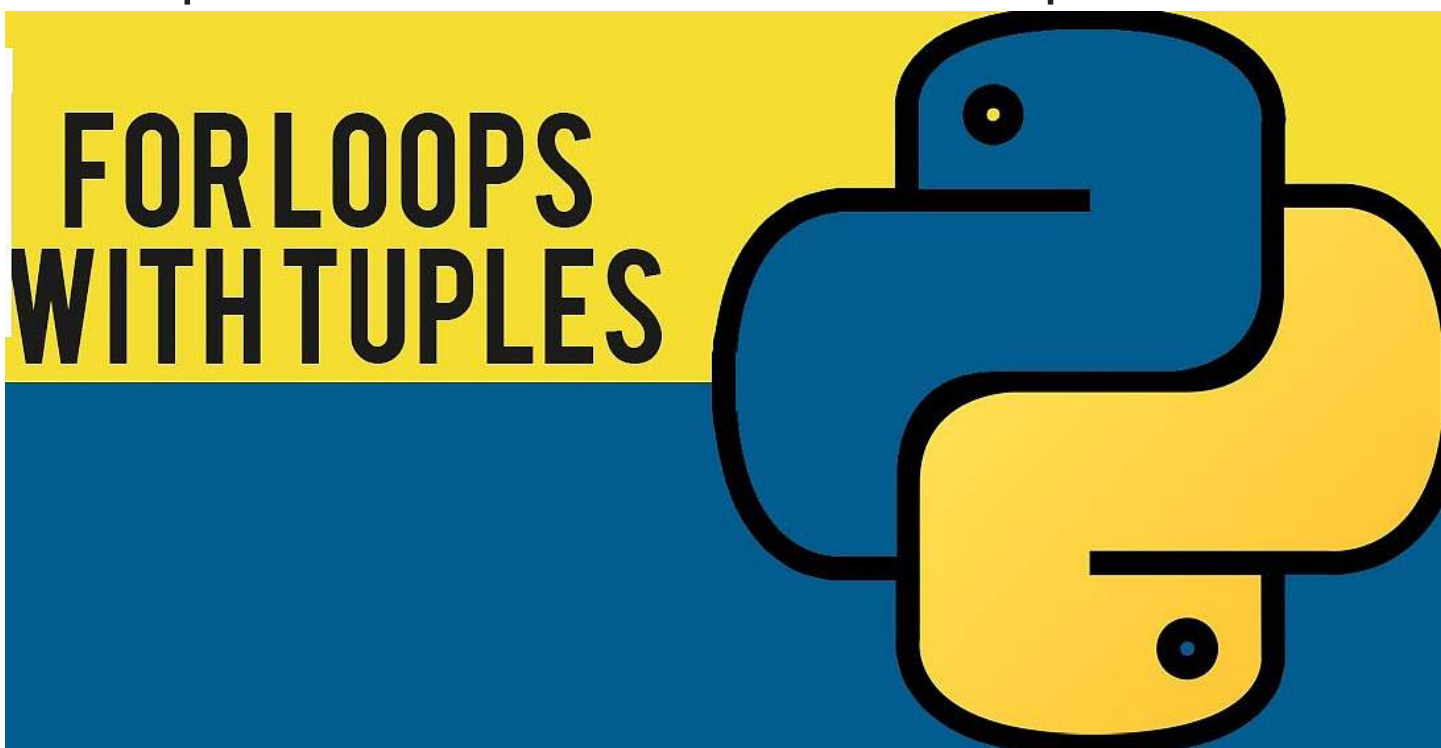
Flow Control in Python



- The if Statement
- Using elif Clause
- Avoiding infinite loops
- Using Logical Operators
- The else Clause
- The while Statement
- Values as conditions
- Planning Your Program with Pseudocode

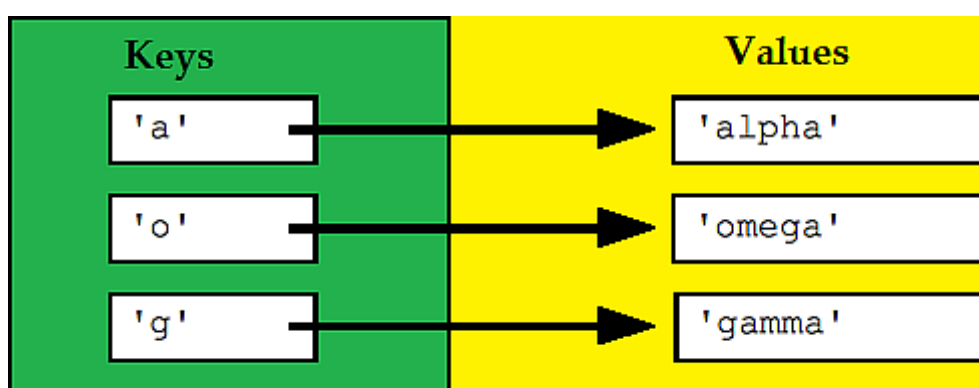
For Loops with Tuples

- Using for Loops
- Using Sequence Operators and Functions with Strings
- Finding Length with len()
- Using the in Operator
- Indexing and Slicing Strings
- Using Random Module
- Using Tuples
- Sequence Operators and Functions with Tuples



Dictionaries

- Using Dictionaries
- Accessing Dictionary values
- Adding, Replacing and Deleting key-value pairs
- Functions: get(), keys(), values() and items()



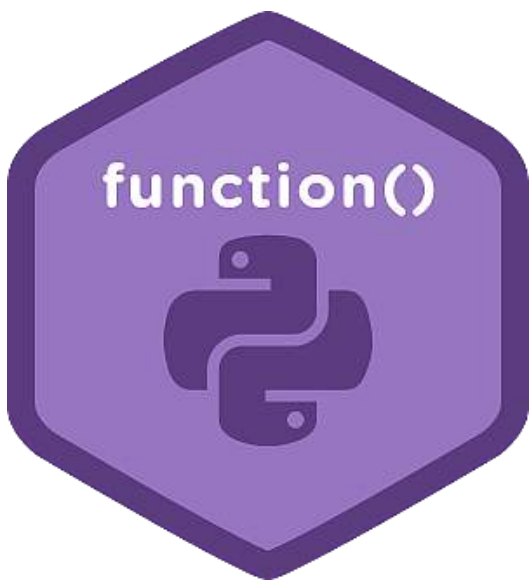
Lists in Python

- Creating and Using Lists
- len() with Lists
- in Operator with Lists
- Indexing, Slicing and Concatenating
- Deleting List Element with del
- Using Lists Methods such as append(), sort(), reverse(), count(), pop(), remove(), insert() and index()
- Using Nested Sequence
- Understanding Shared References

Hello

0	1	2	3	4
-5	-4	-3	-2	-1

Functions in Python



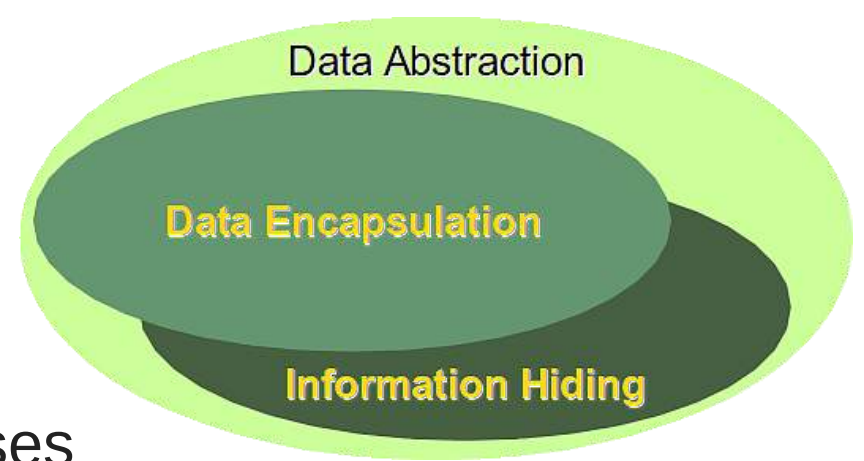
- Defining Functions
- Using Parameters and Return Values
- Using Arguments and Defaults Parameters
- Using Global Variables and Constants
- Variable Scope
- References

Object-Oriented Python

- Introduction to Object-Oriented Python
- Creating Classes, Methods and Objects
- Using Constructor and Attributes
- Using Class Attributes and Static Methods



- Understanding Object Encapsulation
- Private Attributes and Methods
- Controlling Attribute Access
- Creating and Accessing Properties
- Combining Objects
- Using Inheritance to Create New Classes
- Altering Behavior of Inherited Method
- Understanding Polymorphism



★ File Input and Output and Exceptions ★

- The open Function
- Input from Text Files
- Output to Text Files
- Storing Complex Data in Files with Pickles and Shelve
- Handling Exceptions
- Using try Statement with except Clause



★ Modules ★

- Using Modules in Programs
- Writing Modules
- Importing Modules
- Using Imported Functions and Modules



★ Interview Questions - Project Discussion - Certificate Presentation ★



CONTACT US

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