

Python Programming

Course - Basic

Session 1: Introduction

1. Introduction to Python.
2. Basic output Generation, Python Modules.
3. Working with Python Variables, Lists.
4. Working with Sequence Variables.
5. Numeric Operations in Python.
6. Python String Types.
7. More on Lists and Tuples.

Session 2: Directories and Files

1. Python Dictionaries.
2. Python Compound Statements.
3. Working with Files.
4. File creation, File Read, File Write, File Copy.
5. Understanding Iterators.

Session 3: Functions and Objects

1. Creating Python Functions.
2. Creating Modules and Packages, OS Interfacing.
3. Object Oriented Python.
4. Fun with Objects.
5. Overriding Inherited Methods.
6. Pythonic Programming (Lambda Functions).
7. Errors and Exceptions.
8. Regular Expressions (RE Objects).
9. Python Generators.

Course – Advance

Session 1: GUI Interface

1. Python Generators.
 2. GUI Introductions.
 3. GUI Controls Examples.
 4. Accessing the Databases Using Python –I.
 5. Working with CGI.
 6. CGI Uploading File.
 7. CGI Sending Mails.
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Session 2: Database Access

1. Networking.
2. Sending Email.
3. Multithreading.
4. XML Processing.
5. Tools/ Utilities