Front End

Understanding HTML4 & HTML5

- What is Markup Language
- Basic Structure of HTML
- Head Section and Elements
- Meta Tags
- External Link Tags
- HTML Structure Tags
- Create Table, Div and Frame Tag
- Content and Header Tags
- Paragraph, Span, Pre Tags
- Anchor Links and Named Anchors
- Object,Iframe and Image Tag
- Implementing iFrame in Realtime
- Working with Forms
- Form Tag and Attributes
- POST and GET Method
- Text Input, TextArea, Checkbox and Radio
- Password Field
- Select Option, Option Group
- File Field and Hidden Fields
- Submit, Reset, Image Buttons
- Relation between HTML Form and PHP
- XHTM
- What is XHTML
- Difference between HTML & XHTML
- XHTML Basics
- Introduction to Doc Types
- XHTML Validation
- HTML5 (Latest Version)

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- Introduction to HTML5
- Whats new in HTML5
- HTML5 Apis
- HTML5 Semanticg Tag
- HTML5 Multimedia
- Search, Email and Url Tel Input

Cascading Style Sheets (CSS2 & CSS3)

- Introduction to Cascading Style Sheets
- Types of Style Sheets
- Media Type
- Default CSS Properties
- Types of CSS Selectors
- Adjacent Sibling Selector
- Other Selectors
- CSS properties
- Type Properties
- Background Properties
- Block Properties
- Box Model Properties
- List Properties
- Border Properties
- Positioning Properties
- CSS Optimization Tips
- CSS Compression
- (CSS 3.0 - Latest Version)
- Introduction to CSS 3
- Basic CSS3 Selectors
- Advanced CSS3 Selectors
- New CSS3 Properties
- CSS Rounded Corners

- Border Image
- Box and Text Shadow
- Multiple Backgrounds
- Background Origin
- Background Resize
- CSS Clip, Gradients, Opacity
- Transitions & Transform

Bootstrap

- Bootstrap Setup
- Benifits of Bootstrap
- Basics of Bootstrap
- Project Design Using Bootstrap

Java Script

- Introduction to Client Side Scripting
- Introduction to Java Script
- Javascript Types
- Variables in JS
- Operators in JS
- Conditions Statements
- Java Script Loops
- JS Popup Boxes
- JS Events
- JS Arrays
- Working with Arrays
- JS Objects
- JS Functions
- Using Java Script in Realtime
- Validation of Forms
- Related Examples

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Jquery and jQuery UI

- Introduction to jQuery
- jQuery Features
- Installing jQuery
- jQuery Syntax
- jQuery Ready Function
- jQuery Selectors
- jQuery Actions
- jQuery Custom Functionality
- jQuery Libraries
- jQuery Validation
- jQuery Slideshow
- jQuery Dropdown
- JS Functions
- jQuery UI
- Working with jQueryUI
- jQuery Accordions
- jQuery Tabs
- jQuery Tooltips
- jQuery Autocomplete

Hosting First Website

- Web Hosting Basics
- Types of Hosting Packages
- Registering domains
- Defining Name Servers
- Using Control Panel
- Creating Emails in Cpanel
- Using FTP Client

- Maintaining a Website

Python

Overview

- Why do we need Python?
- Program structure

Environment Setup

- Python Installation
- Execution Types
- What is an interpreter?
- Interpreters vs Compilers
- Using the Python Interpreter
- Interactive Mode
- Running python files
- Working with Python shell
- Integrated Development Environments (IDES)
- Interactive Mode Programming
- Script Mode Programming

Basic Concepts

- **Basic Operators**
- Types of Operator
- Python Arithmetic Operators
- Python Comparison Operators
- Python Assignment Operators
- Python Bitwise Operators

- Python Logical Operators
- Python Membership Operators (in, not in)
- Python Identity Operators (is, is not)
- Python Operators Precedence

Basic Concepts

- **Data Types**
- Variables
- Assigning Values to Variables
- Multiple Assignment
- Python Numbers
- Python Strings
- Accessing Values in Strings
- String Special Operators
- String Formatting Operator
- Triple Quotes
- Built-in String Operations
- **Python Lists**
- Accessing Values in Lists
- Updating Lists
- Delete List Elements
- Basic List Operations
- Indexing, Slicing, and Matrixes
- Built-in List Functions & Methods
- **Python Tuples**
- Accessing Values in Tuples
- Updating Tuples
- Delete Tuple Elements
- Basic Tuples Operations
- Indexing, Slicing, and Matrixes
- No Enclosing Delimiters
- Built-in Tuple Functions

- **Python Dictionary**
- Accessing Values in Dictionary
- Updating Dictionary

PYTHON FULL STACK

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- Delete Dictionary Elements
- Properties of Dictionary Keys
- Built-in Dictionary Functions & Methods

Basic Operators in Python

- Types of Operator
- Python Arithmetic Operators
- Python Comparison Operators
- Python Assignment Operators
- Python Bitwise Operators
- Python Logical Operators
- Python Membership Operators (in, not in)
- Python Identity Operators (is, is not)
- Python Operators Precedence

Loops and Decision Making

- if statements
- ..else statements
- nested if statements
- while loop
- for loop
- nested loops
- Loop Control Statements
- 1) break statement
- 2) continue statement
- 3) pass statement

SECTION – II
Functions

- Defining a Function
- Syntax
- Calling a Function
- Pass by reference vs value
- Function Arguments
- Required arguments
- Keyword arguments
- Default arguments
- Variable-length arguments
- The return Statement
- Scope of Variables
- Global vs. Local variables

Python Modules and Packages

- Framework vs Packages
- Folium Introduction
- Why are modules used?
- Creating modules
- The import Statement
- The from...import Statement
- The from...import * Statement
- Locating Modules
- The PYTHONPATH Variable
- Namespaces and Scoping
- The dir( ) Function
- The globals() and locals() Functions
- The reload() Function

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- Packages in Python

Basic OOPs Concept

- Creating class in Python
- Documented String
- Private Identifier
- Constructor
- Inheritance
- Polymorphism

Decorator, Iterator and Generator

Anonymous Function

- Lambda
- Map
- Filter
- Reduce

SECTION -III

File Manipulation

- Opening Text File
- Working with a File on Python
- The open function
- File modes
- The file object attributes
- close() method
- write() method
- read() method
- Files: Input

- Files: Output
- Reading files
- Renaming & deleting files
- Writing into a file
- remove() method

Python GUI

- Basic Operations using Tkinter
- Buttons and Textbox
- Menu Bar
- Message Box and Radio Button
- Checkbox and Event Creating
- Creating Application in GUI

SQL and Python

- Overview of SQLite
- Integrating Python with SQLite

NoSQL and Python

- Overview of NoSQL
- Integrating Python with NoSQL

Project Demonstration Tkinter with SQL

- **Project Demonstration Tkinter with SQL**

Other Concepts

- Errors and Exception Handling
- Standard exceptions
- Assertions in Python
- The assert Statement
- What is Exception?
- Handling an exception
- Syntax
- The except Clause with No Exceptions
- The except Clause with Multiple Exceptions
- The try-finally Clause
- Argument of an Exception
- Example with Tkinter Application
- Regular Expression
- Powerful Utilities
- Multithreading
- List Comprehensive
- Shallow and Deep Copy
- Unit testing

Advanced Concept – Overviews

- Networking Overview
- Sending and Receiving Email by Python
- Basics of Pandas and Numpy
- How to use Anaconda
- How to create dashboard
- Overview of Django