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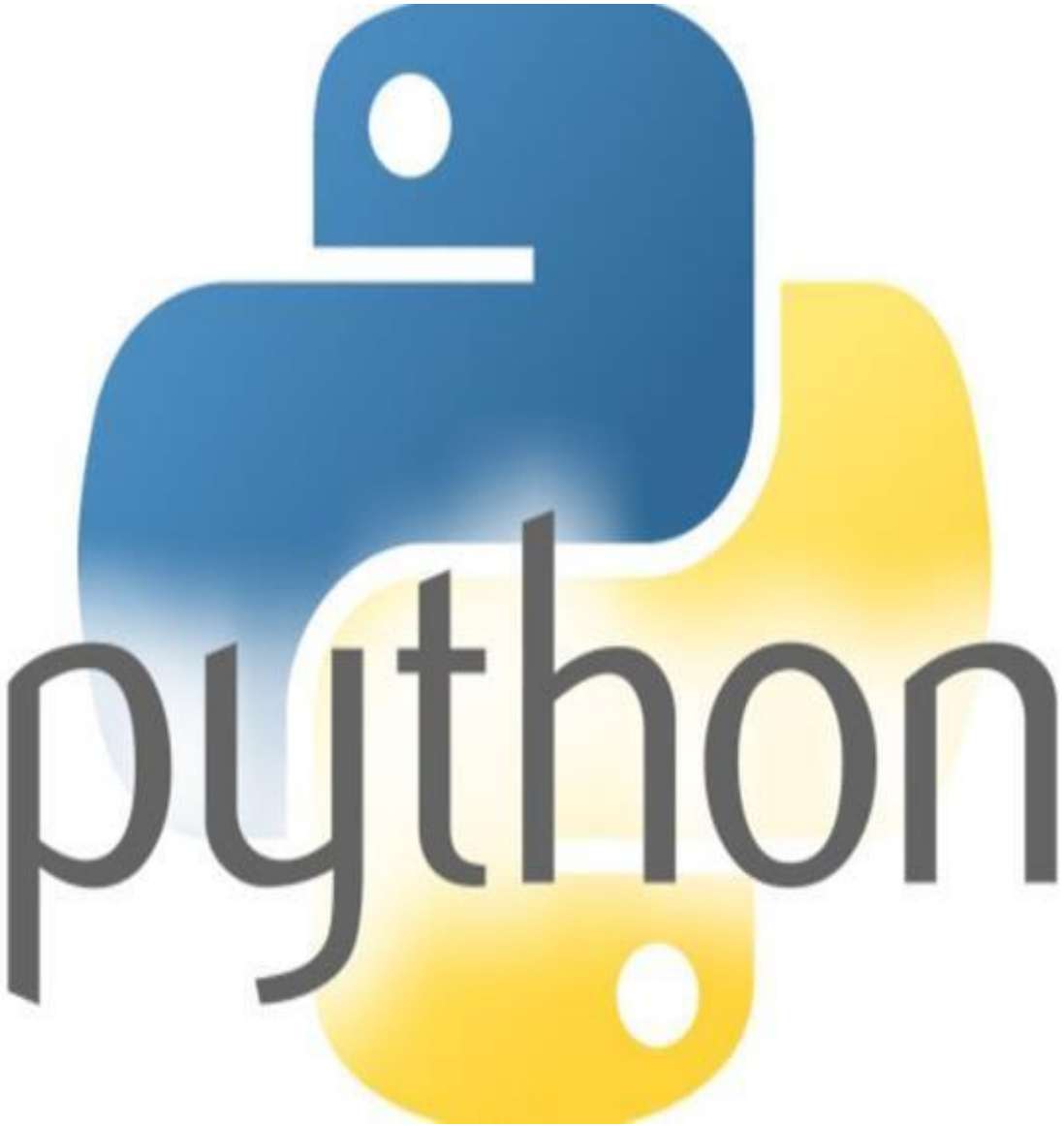

Certificate Course

PYTHON

Course Contents

Introduction to Python

- Introductory Remarks about Python
- A Brief History of Python
- How python is differ from other languages
- Python Versions
- Installing Python
- IDLE
- Getting Help
- How to execute Python program
- Writing your first program

Python Basics

- Python keywords and Identifiers
- Python statements
- Python indentation
- Comments in python
- command line arguments
- Getting user input
- Exercise

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Variables and Data Types

- Introduction
- Variables
- Data types
- Numbers
- Strings
- Lists, tuples & Dictionary
- Exercise

Decision Making and Loops

- Introduction
- Control Flow and Syntax
- The if Statement
- Python Operators
- The while Loop
- break and continue
- The for Loop
- Pass statement
- Exercise

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Functions

- Introduction
- Calling a function
- Function arguments
- Built in functions
- Scope of variables
- Decorators
- Passing Functions to a Function
- Lambda
- Closures
- Exercise

Modules and Packages

- Modules
- Importing module
- Standard Module - sys
- Standard Module - OS
- The dir Function
- Packages
- Exercise

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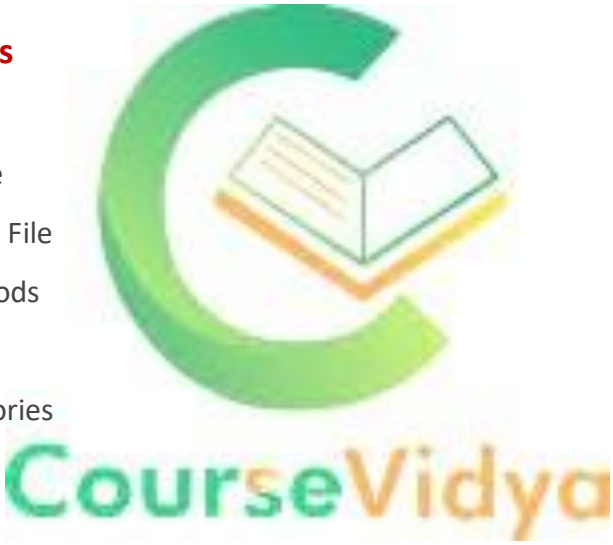
Excption handling

- Errors
- Run Time Errors
- Handling IO Exceptions
- Try .... except statement
- Raise
- Assert
- Exercise

Files and Directories

- Introduction
- Writing Data to a File
- Reading Data From a File
- Additional File Methods
- Working with files
- Working with Directories
- The pickle Module
- Exercise



Classes Objects

- Introduction classes and objects
- Creating Classes
- Instance Methods
- Special class method
- Inheritance
- Method overriding
- Data hiding
- Exercise

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Regular Expressions

- Introduction
- Match function
- Search function
- Grouping
- Matching at Beginning or End
- Match Objects
- Flags
- Exercise

Socket Programming

- What are sockets?
- Creating sockets
- Server-client socket methods
- Connecting client server
- Client-server chatting program
- Exercise

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Project – Electronic Voting Machine

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- Pay Per Click (PPC)

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