

Core Python

Introduction

[History](#)
[Features](#)

Installation and setting up environment

[Installation of Python and PIP](#)

[Setting up path](#)

Working with Python Writing First Program in Python “Hello World”

Installing Python IDE (PyCharm or Eclipse plug-in or PyScripter)

Basic Syntax

Data Structure and Control Flow

Introduction to data types

[Variable and Data Types](#)

[Operator](#)

Control Flows

Functions and Variables

Data Structures

Lists & More

OOPS Concept

Classes

Names and Objects

Inheritance

Iterators

Generators

Python Standard Libraries

Error & Exception Handling

Errors and Exceptions

Modules

Input and Output

Regular expressions

- Match function
- Search function
- Matching VS Searching
- Modifiers
- Patterns

CGI

- Introduction
- Architecture
- CGI environment variable
- GET and POST methods
- Cookies
- File upload

Database

- Introduction
- Connections
- Executing queries
- Transactions
- Handling error

Networking

- Socket
- Socket Module
- Methods
- Client and server
- Internet modules

Multi-threading

- Thread
- Starting a thread
- Threading module

Synchronizing threads
Multi threaded Priority Queue

GUI Programming

Introduction
Tkinter programming
Tkinter widgets

Sending email

Advance Python

[Difference between Python 2 and 3](#)

Advance Function

[Lambda](#)
[Filter](#)
[Reduce](#)
[Map](#)
[List Comprehension](#)
[Set Comprehension](#)