

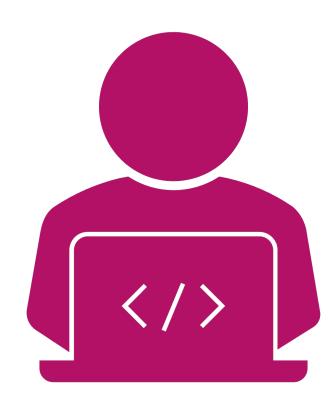
PYTHON COURSE CONTENT 6 WEEKS

APPWARS TECHNOLOGIES PVT LTD

PYTHON PROGRAMMING OVERVIEW

In this course, participants will learn to write reusable scripts with Python.

Through intensive exercises, participants learn to use Python in your operating system and application environments as well as apply built- in functions of the language and make use of external modules.



LESSON 1: PYTHON INTRODUCTION

Python: An Overview

Python: History, Version & Features

Execution of Programs

Python Comments

LESSON 2: Python Variables & Data Types



Python Variable

What is Variable?
How to Assign Variable



Python Data Types

Numeric Data Types

Boolean Data Types

Compound Data Types

Dictionaries, Sets & Arrays

LESSON 3: Python Operators

OPERATOR TYPES-PYTHON

- ✓ Arithmetic Operators
- ✓ Assignment Operators
- ✓ Local/Boolean Operators
- ✓ Identity Operators
- Membership Operators
- ✓ Bit Wise Operators

- ✓ Operators Precedence & Associativity
- ✓ Precedence of Operators
- ✓ Associativity of Operators

LESSON 4: Python Conditional Statements

STATMENTS:

- The If Statements
- The if-else Statements
- The Elif Statements
- The Nested If Else Statements

PYTHON CONTROL STATMENTS:

- The Break Statements
- The Continue Statements
- The Pass Statements

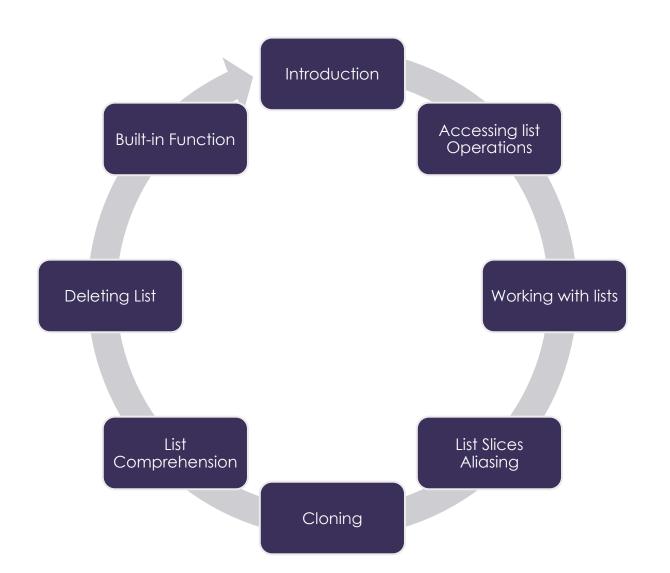
LESSON 5: PYTHON- NUMBERS & STRINGS

▶ PYTHON NUMBER

- ✓ Mathematical Function
- ✓ Random Function
- ✓ Trigonometric Function

▶ PYTHON STRINGS

- ✓ Accessing Strings
- ✓ Basic Operations
- ✓ String Slices
- ✓ String- Built In Function



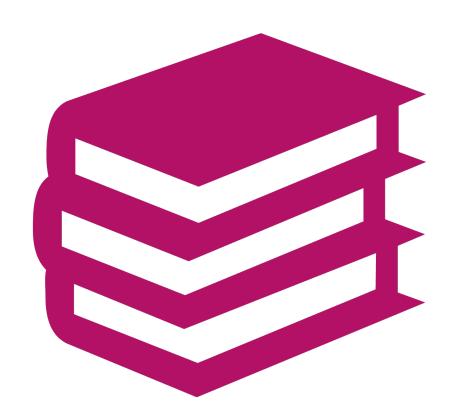
LESSON 6: PYTHON LISTS

Introduction Creating Tuple Accessing Tuple Modifying Tuple Deleting Tuple Built-in Function

LESSON 7: PYTHON TUPLE

LESSON 8: PYTHON DISCTIONARY & SETS

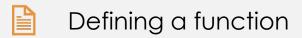
- Python Dictionary Introduction
 - Creating Dictionary
 - Accessing Dictionary
 - Deleting Dictionary
 - ✓ Built-In Function
- Python Sets Introduction
 - Declaring a Sets
 - Operation on Sets
 - ✓ Built-In Function



LESSON 9: PYTHON FUNCTIONS







Calling a function

Types of functions

Fu Anonymous functions

S Global and local variables

LESSON 10: PYTHON FILE HANDLING

- File Handling (Input / Output) Introduction
- Opening & Closing Files
- Reading & Writing Files
- Rename & Remove Files
- The Directories



LESSON 11: PYHTON EXCEPTION HANDLING

Exception Handling

- Error in Python Program
- Syntax error
- Exception

Types of Exception

- Handling Exception in Python
- Raising Exception
- User Defined Exception

LESSON 12: PYTHON OOP'S CONCEPT

Class and object

Attributes

Inheritance

Overloading

Overriding

Interface & Abstraction

LESSON 13:
PYTHON
MULTITHREADING

Multithreading

Thread

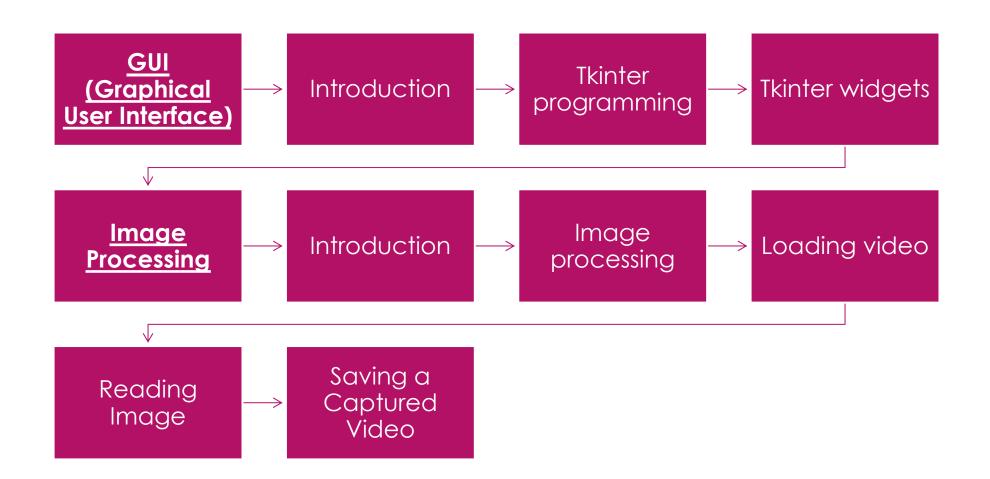
Starting a Thread

Threading Module

Synchronizing Threads

Multithreaded Priority Queue

LESSON 14: GUI & IMAGE PROCESSING



PROJECTS

Calculator

Number Guessing

Text-Based Adventure Game

Dice Rolling Simulator

Boolean

Find Fibonacci

All Types Pattern

Armstrong

Factorial of Given Number User Input

Rate of Interest

Management System

Basic Programming Code All In Python