

# Python Advanced

Level 10 | 48 Hrs. | Age group : 11 yrs. +

**Description** This course provides Advanced concepts of Python, which includes Object-Oriented Programming along with its four pillars. Student will have an exposure to map real life objects as a Class or Datatype. Student will be able to handle multiple types of data into an organized manner. Students will be able to visualize a clear program structure and a clean code of multiple real life data or objects.

## Skills you will Develop

- ▼ Become expert in Core Python
- ▼ Learn to map real objects with computer as Class or Data-type
- ▼ Complex Data Handling Skills
- ▼ Analytical Skills
- ▼ Problem Troubleshooting skills

## Eligibility

- ▼ Interest towards Coding and Building applications
- ▼ Previous knowledge of Python Foundation Course (Level 9)

## What will you Learn ?

- ▼ 40+ Projects on App Development
- ▼ Object-Oriented Programming
- ▼ Four Pillars of UP
- ▼ File Handling
- ▼ Python Iterators
- ▼ Python Generators
- ▼ Numpy Module
- ▼ Bubble Sorting Algorithm
- ▼ \*args and \*\*kwargs in Python
- ▼ Fibonacci series
- ▼ Concatenating two Dictionaries
- ▼ Generating a Sine Wave
- ▼ Python RegEx
- ▼ Matrix Multiplication
- ▼ Quadratic Equation Solver
- ▼ Calendar in Python
- ▼ 8 Queens Puzzle with recursion
- ▼ Typing Speed Test
- ▼ Puzzle : Tower Of Hanoi
- ▼ Text to Speech Converter
- ▼ Image Resizer
- ▼ Alarm Clock

