

AI Coding (10-14 y/o)

AI003 - Getting Started with Python Programming

Python programming is a course designed to give an applicable introduction to programming using an actual programming language that is widely used in the industry. Over the course of 3 sessions, students will learn from Basics, to Functions, Library, and Object-Oriented Programming. The curriculum contains high quality guidelines and presentations with detailed classwork and homework activities.

Contents

Level #1 – Introduction to Python

- Class #1 - Numbers and Strings
- Class #2 - Input and Output Methods
- Class #3 - Variables and Assignment
- Class #4 - Mad-Libs and String Formatting
- Class #5 - Booleans and Comparators
- Class #6 - If-elif-else statements
- Class #7 - Making a List
- Class #8 - For loops and range
- Class #9 - While, break, and continue

Level 2 – Python Library and Functional Coding

- Class #1 - Drawing with “Turtle” : Python Turtle
- Class #2 - Coloring with Turtle
- Class #3 - Turtle with Loops and Iterables
- Class #3 - Introduction to Functions
- Class #4 - Project Drawing
- Class #5 - Modules
- Class #6 - Returning Values
- Class #7 - Project Cookie Typer

Level 3 – Object Oriented Programming

- Class #1 - Introduction to OOP
- Class #2 - Implementing Elementary Objects & Constructors
- Class #3 - Project Student Management System
- Class #4 - Intro to Inheritance
- Class #5 - Implementing Inheritance
- Class #6 - Magic Methods
- Class #7&8 - Project Simulation for Buses



Syllabus: <https://school.thinkland.ai/syllabus/>

Curriculum: <https://school.thinkland.ai/curriculum>

Teachers: <https://school.thinkland.ai/teacher>

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