



# Programming with Python Curriculum

Basic Level (7-10 years) | 8 Sessions | 90-minute Each

## Topic 1

### Introduction to Python and Programming

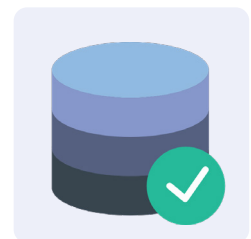
- Learn the Basics of Python
- How to Install and Set Up a Virtual Environment
- Understand How Programming Works To Solve Problems



## Topic 2

### Working with Variables and Data Types

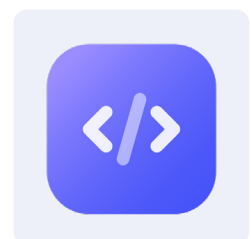
- Understand How to Store and Use Different Types of Data, Such as Numbers, Text, and More



## Topic 3

### Conditional Statements

- Learn How to Make Decisions in Your Code Using Conditions (if, else statements)

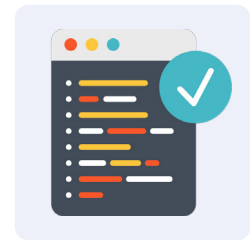




## Topic 4

### Iterations and String Operations

- Learn How to Repeat Actions in Your Code Using Loops for Efficiency
- Master String Manipulation (Concatenation, Slicing, & Formatting)



## Topic 5

### Functions and Graphic Tool

- Learn How to Write Reusable Blocks of Code (Functions) to Make Your Programs Cleaner & Easier, and Explore a Graphic Tool for Visual Creation



## Topic 6

### Automating Tasks Using Python and Capstone Projects

- Discover How to Use PyAutoGUI to Automate Tasks and Apply Your Skills to Create Capstone Projects for Hands-on Experience

