

# Python Course Curriculum

## LEVEL 1

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### 1. Understanding python in detail

- History of Python
- Sample Python projects
- Writing your first program
- Saving and opening programs
- Using comments

### 2. Move your turtle

- Using the turtle module- pen()
- Using the turtle module – forward(), backward(), left(), and right()
- Changing the pen size and color
- Penup() and pendown()
- Drawing circles.

### 3. Math and Variables

- Operators and Order of Operations
- Variables
- Revisiting the turtle with variables

### 4. Strings

- **Creating strings1**

- Multi-line strings
- Quotation marks inside strings
- Embedding values inside strings
- Multiplying strings
- Using the input () function
- Converting strings to numbers
- Concatenating strings

## 5. Reuse of code with functions and modules

- Defining a function
- Using functions
- Returning a value
- Variables and scope
- Modules

## 6. Conditional Statements

- If statements
- If-then-else statements
- If and elif statements
- Multiple conditions and multiple if statements

## 7. Loops (while, for.)

- Using for loops
- Creating while loops
- Nesting loops
- Using the break command and avoiding infinite loops

8. Lists and Dictionaries.

9. Turtle again.

10. Built in functions.

11. Work with functions.

12. Project.

