PYTHON COURSE CONTENT

- Python Basics
    - Running Python
        - Python Interpreter in Interactive Mode
        - IDLE
        - Commercial and Free Python IDEs
    - Hello, World!
    - Literals
    - Python Comments
    - Data Types
    - Variables
        - Variable Names
        - Variable Assignment
        - Simultaneous Assignment
        - Constants
        - Deleting Variables
    - Writing a Python Module
        - The main() Function
    - print() Function
    - Named Arguments
    - Collecting User Input
    - Getting Help
- Functions and Modules
    - Defining Functions
    - Variable Scope
    - Global Variables
    - Function Parameters
        - Using Parameter Names in Function Calls
        - Default Values

- Returning Values
- Importing Modules
    - Module Search Path
    - pyc Files
- Math
    - Arithmetic Operators
    - Modulus and Floor Division
    - Assignment Operators
        - Order of Operations
    - Built-in Math Functions
    - The math Module
    - The random Module
    - Seeding
- Python Strings
    - Quotation Marks and Special Characters
        - Escaping Characters
        - Triple Quotes
    - String Indexing
    - Slicing Strings
    - Concatenation and Repetition
    - Common String Methods
    - String Formatting
        - Format Specification
        - Long Lines of Code
    - Built-in String Functions
- Iterables: Sequences, Dictionaries, and Sets
    - Definitions
    - Sequences
        - Lists
        - Deleting List Elements
        - Sequences and Random
    - Tuples
        - The Immutability of Tuples

- Lists vs. Tuples
- Ranges
- Indexing and Slicing
- Converting Sequences to Strings with str.join(seq)
- Splitting Strings into List
- Unpacking Sequences
- Dictionaries
    - The update() Method
    - The setdefault() Method
    - Dictionary View Objects
    - Deleting Dictionary Keys
- Flow Control
    - Conditional Statements
    - The is and is not Operators
    - Python's Ternary Operator
    - Loops in Python
        - while Loops
        - for Loops
        - break and continue
        - The else Clause
    - The enumerate() Function
    - Generators
        - The next() Function
    - List Comprehensions
- File Processing
    - Opening Files
    - The os and os.path Module
- Exception Handling
    - Wildcard except Clauses
    - Getting Information on Exceptions
    - The else Clause
    - The finally Clause
    - Using Exceptions for Flow Control

- Exception Hierarchy
- Dates and Times
  - Understanding Time
  - The time Module
  - The datetime Module
- Running Python Scripts from the Command Line
  - sys.argv