

## Fundamentals of Problem Solving Using Python I

### Lesson 1: Welcome to Fundamentals I

- Using Jupyter Notebook
- Python
- Jupyter Notebook Tips and Tricks
- Computational Thinking

### Lesson 2: Data Types

- Introduction to Data Types
- Numbers and Arithmetic Operators
- Strings
- None Type

### Lesson 3: Conditional Statements

- Boolean Values and Expressions
- If Statements

### Lesson 4: Data Structures 1

- Sequences: Lists, Tuples, Strings
- Indexing and Slicing
- Common Operations Across Data Structures

### Lesson 5: Data Structures 2

- Unordered Collections: Sets, Dictionaries
- Common Operations Across Data Structures

### Lesson 6: Loops

- For Loops
- While Loops
- Break and Continue

### Lesson 7: Getting Data from Files

- Reading and Writing Plain Text
- Getting Data with the CSV Library

### Lesson 8: Prepare for the Final Exercise

- Computational Thinking
- Python Data Types
- Python Data Structures
- Flow Control
- Getting Data