Week 1: Introduction to Python Programming

- 1. Variables Containers to store values, e.g., x = 5, name = "Avi".
- 2. Data Types Types of values: int, float, str, bool, list, tuple, dict.
- 3. Operators Perform calculations or comparisons:
 - Arithmetic: +, -, *, /, %
 - Comparison: ==, !=, >, <
 - Logical: and, or, not
- 4. Input/Output
 - input() to take user input
 - print() to display output
- 5. Conditional Statements if, elif, else used for decision-making.
- 6. Loops Repeat actions:
 - for loop iterates over a sequence
 - while loop repeats until a condition becomes False
- 7. Hands-On Applications Developed Python programs:
 - Temperature Converter
 - Simple Calculator
 - Average Temperature Calculator

Skills Applied: Variables, loops, conditions, data input/output, arithmetic operations, and basic data processing.