Introduction to Python Programming

Michael Brodskiy

Professor: M. Fanaei

January 20, 2023

- General Guidelines of Python Coding
 - No variable declaration; however, variables must be initialized before use
 - * Variable names are case-sensitive
 - * Variable identifiers may consist of letters, digits, and underscores, but may not begin with a digit
 - Many of the high-level programming languages like C, C++, or C use braces {} to mark a block of code; Python does it via indentation
 - * A code block representing the body of a function or a loop begins with the indentation and ends with the first unindented line
 - * Most programming languages provide indentation for better code formatting and don't enforce to have it
- Python Data Types
 - Python determines the type of a literal directly from the syntax at runtime
 - Boolean (bool): True or False
 - Numeric: int, float, and complex
 - String (str): 'myStr', "myStr"
- Can shorten if statements to Value_on_true if < condition> else value_on_false
- Python For Loop
 - Used when you know the total number of iterations required for execution

FOR ITER IN SEQUENCE: STATEMENTS (ITER)

- * ITER represents the iterating variable. It gets assigned with the successive values from the input sequence
- * SEQUENCE may refer to any of the following Python objects: list, tuple, or string