**Section 3: Python Object and Data Structure Basics**

**01.02.**

**11. Introduction to Python Data Types**

Lists and Tuples are ordered because:

* we can access the elements by using an index
* the insertion order is maintained

**13. Numbers – FAQ**

0.1 + 0.2 – 0.3 != 0.0 because in memory each number is represented as base 2 fractions

**14. Variable Assignments**

Python uses Dynamic Typing, so we can reassign variables to different data types

Use type() for type checking

**15. Introduction to Strings**

Because strings are ordered sequences, we can use indexing and slicing

There a reverse indexing

Slicing has the following syntax: [start:stop:step]

**16. Indexing and Slicing with Strings**

Reversing a string: my\_string[::-1]