Python Tutorial #1 Outline

1. Data Types
   1. Strings
      1. Creation
      2. Referencing Part of a string
      3. Assignment
      4. String Methods
      5. String Format method
   2. Numeric Data Types
      1. Int
      2. Float
   3. Boolean data types
2. Data Structures
   1. Lists
      1. Creation
      2. Referencing part of a list
      3. Changing elements of a list
      4. Assignment
      5. Methods
   2. Range Objects
   3. Sets
      1. Creation
      2. Adding or removing items from a set
      3. Methods
3. Basic Python Math
4. Iteration and Iterators
   1. Iterating through a collection
   2. Iterating using a range object
5. Control Flow
   1. If Statements
   2. If, Else Statements
   3. If, Elif, Else Statements
   4. ‘and’ and ‘or’
   5. ‘in’ and ‘not in’
6. Functions
   1. Basic components
   2. Multiple variables
   3. Default Variables

Python Tutorial #2

I. Dictionaries

A. Dictionary Basics

i. creating dictionaries

ii. Accessing values

iii. changing values

iv. Adding items to a dictionary

v. removing items

vi. creating lists of keys and values

vii. iteration

viii. membership with 'in' and 'not in'

ix. copying dictionaries

x. merging dictionaries

B. Dictionary with lists as Values

C. Nested Dictionaries

II. Tuples

III. Pickle