Python 3 Essential Training Notes

**Variable, Objects, and Values**

* Everything in Python is an object
  + Variables, functions, and even code
* Every object has an ID, Type, and Value
  + ID uniquely identifies a particular instance of an object, and cannot change for the life of an object
  + Type identifies the class of an object, and cannot change for the life of an object
  + Value is the contents of an object
    - Mutable objects change value
    - Immutable objects cannot
* All variables in python are first class objects
  + What looks like a simple variable may be something more complex, e.g. defined in a library, built-in object, often has attributes/methods