Title: Notes, Week 8 Page 1 of 2

Name: Zach Caldwell Class: CS 112-01 Date: Feb. 28, 2017

Cues:	Notes:	
	1. Lists:	
List Data Type	 a. Are a data structure that contains multiple ordered 	
_	values. Syntax examples:	
List Declaration Syntax	>>> list = [1, 2, 536] >>> list = ['a', 'cat', 'stuff42']	
	>>> list = []	
Liet Indevise	b. Can have their items addressed via a zero-based index.	
List Indexing	Example:	
	>>> list = ['a', 'b', 'c']	
	>>> list[0]	
	a >>> lic+[1]	
	>>> list[1] b	
Extracting / Changing	c. Can have their values extracted or changed via indexing	L
List Values	Example (reusing the above list):	-
	>>> x = list[0]	
	>>> X	
	'a' >>> list[1] = 'cat'	
	>>> list	
	['a', 'cat', 'c']	
List Index Errors	d. Will throw an error if an index greater than the current	
LIST MIGGA ETIOIS	item range in the list is requested, or if anything other	
	than an integer is given as an index.	
List Dimensions	e. Can be multi-dimensional, eg. list[0][1].	
List Slicing	f. Can be <i>sliced</i> , which causes a subset of the contained	
	data to be returned as a new list. Example: >>> spam = ['cat', 'bat', 'rat', 'elephant']	
	>>> eggs = spam[2:4]	
	>>> eggs	
O attion of Lint I are only	['rat', 'elephant']	
Getting List Length	g. Can have their current size (number of values) requested	
	via the len() function. Example (using the above spam)	
	>>> len(spam)	
List Concatenation &	h. Can be concatenated (combined) and replicated (have	
Replication	their items repeated) using the standard + and *	
·	operators. Example (using the above eggs and spam):	
	>>> spam + eggs	

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Cues:	Notes:
The del keyword	['cat', 'bat', 'rat', 'elephant', 'rat',
list() casting	>>> del eggs[1] >>> eggs ['rat'] j. Can be created from multiple values or converted from a tuple using the list() cast.

Summary/Reflection: