## Lesson 1: Week 3 - Overview

Created: 2024-05-27T01:25:37.436833+10:00

## Week 3 Tuesday To Do List

Week 3 Tuesday To Do ListAdmin/TipsAssignment 1 worth 13 marks will be released today @ 7.15pmQuiz 1 worth 4 marks is due Week 3 Thursday @ 9pmContentContinue "Week 2 - Lists, Tuples, Sets, and Dictionaries" lessonAdding elementsAdding to a list: append(), insert(), extend(), and using + operatorNo adding to tuples since they are immutableAdding to a set: add() and update()Adding to a dictionary by specifying a value for a new key or updating itRemoving elementsRemoving from a list: del, set slice to empty list, pop(), remove(), and clear()No removing from tuples since they are immutableRemoving from a set: remove(), discard(), and clear()Removing from a dictionary: del, pop(), and clear()Modifying elementsModifying list elements: assignment and sliceNo tuples modification since they are immutableModifying set elements: can not be changed, but remove then addModifying dictionary elements: using assignment similarly to list elementsSorting elementssort() method (lists only and in-place)sorted() method (applies to all and returns a list)Joining elements using join() string methodSpecial string operationsStrings as tuplesSplitting stringsSpecial set operations: union, intersection, difference, symmetric difference, comparing setsComprehensionsFiles as lists: readlines(), writelines(), reading CSV filesDates and timesStart "Functions" lessonFunctionsDefining functionsVariable scopeNested functionsLambda functionsFunctions are objectsGeneratorsUseful LinksFor examples of Flow of Execution, see:

https://runestone.academy/ns/books/published/thinkcspy/Functions/FlowofExecutionSummary.htmlPython List sort() Method https://www.programiz.com/python-programming/methods/list/sortPython sorted() Methodhttps://www.programiz.com/python-programming/methods/built-in/sorted

## Week 3 Thursday To Do List