Lesson 2.04: Lists Part 2

# Learning Objectives

* Define and identify: append, remove, slicing, mutable
* Be able to add and remove items from a list
* Create sublists

# Materials/Preparation

* Lab handout
* Read through the handout so that you are familiar with the requirements and can assist students

# Pacing Guide

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| Duration | Description |
| *Day 1* |  |
| 5 Minutes | Welcome, attendance, bell work, announcements |
| 10 Minutes | Lecture |
| 10 Minutes | In Class Practice |
| 30 Minutes | Lab Work |
| *Day 2* |  |
| 5 Minutes | Welcome, attendance, bell work, announcements |
| 10 Minutes | Lists Review |
| 25 Minutes | Quiz |
| 15 Minutes | Lab Wrap Up/ Discussions |

# Instructor’s Notes

1. Lecture
   1. Lists are mutable
      1. Mutable:
      2. Can add or remove elements from a list
      3. To add an element append it myList.append(1)
      4. To delete an element myList.remove(1)
   2. Can take sections of a list
      1. If wanted first three color of the rainbow you could do rainbow[1:3]
      2. Works with length
2. In Class Practice
   1. Create a list [‘red’, ‘orange’, ‘yellow’]. Add the elements ‘green, ‘blue’. Now remove pink.
   2. How would you print out everything but the last element of a list
   3. How would you get out the first half of a list
3. Lab
   1. Have lists of Names, verbs, adjectives, adverbs
   2. Ask the user input for number of the word they chose. Use that number to construct a sentence that gets printed out to the user
4. Quiz
   1. Focus on Lists, and Data Types, but reinforce inputting and printing. Add in own questions to be specific to students own issues
5. Review
   1. Discuss two ways to do this problem: concatenating a string or store chose values in a list and making the string at the end
   2. Read out some of the lists