Lecture 18: Introduction to Computer Programming Course - CS1010

DEPARTMENT OF COMPUTER SCIENCE | 03/28/2019

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Announcements

- Exam Grades:
  - Still grading

- Follow/Subscribe the following (On YouTube):
  - Datascience Concepts

Goals for today

- Build a word counter in Python
  - From Text files
- String operations with list comprehensions

Exercise 1 for today

- We will build a simple utility called word counter.

- A text file is provided in submitty under the folder 'Code'.

- Please download and save it in your working folder.

Problem 1

- Build a small program that counts:
  - Number of Lines
  - Number of words
- From a given text file
- Let's look at the code

Problem 2

- Given a string : *'How much wood would a woodchuck chuck if a woodchuck could chuck wood?'*

- Find all words starting with 'woo' and output in a list.

Problem 3

- Find the list of words that are 5+ characters in the previous string.

Problem 4

- In the original string 'wood', uppercase all words that begin with 'wo'.

Problem 5

- To all words that have 4 or less characters, append '-away'. Output this new list.

Problem 6

- Filtering words that are 5+ characters long, and output the words and their length as tuples.

Class exercise

- Given in class

Next Class

Problem Solving and Design