ISDS 3107

Assignment 3: Lists, Dicts, Loop, & Conditionals

Due: 11 February 2020

Description

The goal of this assignment is to demonstrate the ability to iterate over Python lists and dictionaries along with utilizing conditional statements to conduct calculations.

Examples of these types of operations will be discussed in the book and lectures.

You must use 'for loops'.



Requirements & Grading

Download the 'assignment3.py' file.

Using the mpg list, write a for loop that calculates the following:

- # the total number of items (num_items) in the list (10 points)
- # the sum of all the numbers (sum_items) in the list (15 points)
- # the average of all the numbers (avg_num) in the list (15 points)
- # the largest number (largest num) in the list (15 points)
- # smallest number (smallest_num) in the list (15 points)
- # the above must be completed using a single for loop (minus 10 points for more than one for loop)

Using the employee dict, write a for loop for the following:

- # append the employee numbers (key) to a list emp_numbers (10 points)
- # append the employee names (value) to a list emp_names (10 points)
- # the above must be completed using a single for loop (minus 10 points for more than one for loop)

Turn-in files via Moodle

- # update the string student name with your name 5 pts
- # python code file paws_id + '_assignment3.py' (jdavi48_assignment3.py) 5 pts