ISDS 3107
Assignment 4: Auto Mileage Calculations
Due: 20 February 2019

Description

The intent of this assignment is to demonstrate the ability to read, create, & write files while manipulating data using the appropriate python control statements.

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

Requirements

Using an unmodified mpg.csv file provided with the assignment, open the csv file, read the contents, iterate over information, conduct calculations, and output information to a text file

Grading

- Turn-in files via Moodle
    - python code file paws_id + '_assignment4.py' (jdavi48_assignment4.py) – 5 pts
    - create the string variable (student_name) with your name – 5 pts
- Execution of your code creates output file paws_id + '_assignment4.txt' – 20 pts
- Output file should contain the calculation output for:
    - Python code properly runs and calculates the average city mileage for all vehicles (avg_city) – 15 pts
    - Python code properly runs and calculates the average highway mileage for all vehicles (avg_hwy) – 15 pts
    - Python code properly runs and calculates the average highway mileage of all Ford vehicles (ford_hwy) – 20 pts
    - Python code properly runs and calculates the average city mileage of all SUV vehicles (suv_city) – 20 pts
- Only iterate through mpg.csv once, minus 10 points for each loop through mpg.csv more than once.
- Minus 10 points for not properly closing the mpg.csv file.
- Minus 10 points for not properly closing your output text file.
- Minus 50 points for submitting broken code. Do not submit code that runs with errors.