CSC 223, Spring 2020, Assignment 5

Purpose: Data Processing

Due: 11:59pm, Friday, March 6, 2020

Get the assignment code

These instructions assume that your course git repository is set up. Change into your course repository directory and enter the following commands.

```
git fetch assignments
git checkout assignments/master -- assignment5
git commit -a
```

This will copy the `assignment5` directory into your working directory, start tracking the files in the `assignment5` directory, and commit those files to your local git repository.

Assignment Description

Complete the Python script named `assignment5.py`. The script should read in the file `TipJoke.csv`. Information about the file can be found here: `https://vincentarelbundock.github.io/Rdatasets/doc/Stat2Data/TipJoke.html`

The output of the script should print out a table of the form

Type	Total	Percent
Ad	?	?
Joke	?	?
None	?	?

where the "Total" column contains the number of entries of the specified card type and the "Percent" column contains the percentage of tips given for the specified card type with two decimal places of precision.

The implementation should meet the following criteria:

- Use at least one list comprehension.

- Use at least one call to the `map` function.

- Use at least one call to the `filter` function.

- Use the `str.format` function to output the table.

Turning in the Assignment

To turn in the assignment execute the following git commands:

```
git commit -a
git push origin master
```

Note: the most recent commit before the due date will be considered your official submission.

Grading Criteria

- Concise, accurate documentation following the CSC Department documentation guidelines

- Correct implementation of the specification

- Proper use of function abstraction

- Proper use of Python module conventions

Note: If your code does not run on the Python 3 interpreter, then you will receive a failing grade for this assignment.