CSE 465/565

Homework #2: 65 points

Outcomes:

- Understand how a functional language works and understand some of the difficulties
- Calling a function from another scheme file
- Practice writing Scheme codes
- Running and testing a scheme code

Scoring:

- (45 pts) Successful implementation of all 9 or 11 (2 extra questions for graduate students) problems.
- (10 pts) Correct submission on GIT **with more than 5 commits** (6 or more)**.**
- (10 pts) The quality and style of your code.

Requirements:

- On your laptop, add a new folder inside your '**CSE465_565**' folder, and call it '**Homework2**'.
- Download the '**hw2.scm'** and '**zipcodes.scm'** files from canvas and save them inside the 'Homework2' folder.

Instructions:

- Complete all functions in 'hw2.scm'. Use the function names exactly as they appear in 'hw2.scm'. Read the notes in hw2.scm for a description of what these functions should do.
- There are two functions that are intended exclusively for graduate students, as specified in the function notes. These functions are:
    - getCommonPlaces2
    - getDistanceBetweenZipCodes
- You are allowed to add extra helper methods as you wish.
- You MUST submit your code on GIT with more than 5 commits. The point of using GIT is more than just a place to upload work on. You always want to show the progress of your work through multiple commits on your GIT to add authenticity to your work.
- You are required to submit your code on GIT, ensuring that you make more than five commits. The purpose of using GIT extends beyond merely uploading your work; it serves to demonstrate the progression of your work through multiple commits, thereby adding authenticity to your efforts.

Test your program:

Come up with more tests inside hw2.scm and test your program comprehensively. Your methods will be tested with more tests

Submission:

Submit the GitHub/GitLab URL of the project '**Homework2**'.