

CS2613: Programming Languages Laboratory (FR02A)

Lab #18 – Winter 2024

Language: JavaScript (#4)

of Tasks: 1

Topics:

- Class Creation
- Instance Variables
- Methods
- Aggregation

*All tasks are to be completed individually in line with the academic offense guidelines detailed on the syllabus and are **due before the end of the lab period** unless stated otherwise.*

Task #1

Task Style: Edit and Add to Given Code

Submission Method: Show code to Course Instructor or Teaching Assistant

Description:

Download the code from D2L entitled Graphing.js. This code contains a started solution to map cities, their populations, and the distances to drive between them. It is your job to complete all the TODOs in the given code. Follow instructions there for more information.

The end output should list the cities of Bathurst, Campbellton, Edmundston, and Miramichi in the following format:

```
Bathurst
  Miramichi (75.9km)
  Edmundston (248km)
  Campbellton (108km)
Miramichi
  Bathurst (75.9km)
Edmundston
  Bathurst (248km)
  Campbellton (200km)
Campbellton
  Edmundston (200km)
  Bathurst (108km)
```

Resources:

- <https://www.freecodecamp.org/news/how-javascript-implements-oop/>
 - Specifically, the class information
- Review lists in JavaScript as well as lists that contain other lists.
- Review the Data Structure Graphs – specifically with an adjacency list