**Intermediate Computer Programming**

**Reflective Report**

My code consisted of 5 files, a main file, and airport class, an airline class, a route class and a node class. Each class was split into a header and cpp file, the header containing the basic member variables and function declarations and the cpp containing the implementations of the various functions each class had. The airport class contained 6 attributes from the dataset such as the airport id, airport name etc. The Airline class has 8 attributes such as the Airline ID, the name, the alias/nickname of the airline or the IATA or ICAO codes. The route class contains 9 attributes, such as the source and destination airline codes, the costs, and the airline Id to name a few. For each class, a *Retrieve\_”classname”data* method was created whose goal was to read and extract the relevant data from the respective csv files and store them in an unordered map.

Due to the lack of certain key data structures and functions in C++, I struggled quite a bit in completing this project and implementing some of the algorithms such as the breadth first search algorithm and finding the appropriate data structures to store them in.