**Individual Project Reflective Report**

This project was quite involving. Although it was challenging, I am happy to have been able to work my way around it. Initially, I had no idea how to approach this challenge since I had very little experience with reading and writing files using Java. Also, it was time for me to put the Data Structures studied last semester into practice. Selecting an appropriate algorithm for finding a valid and optimal path was a tough decision. However, I finally settled on the Breadth First Search Algorithm which I was fortunate to have studied in Introduction to Artificial Intelligence.

I created four classes in my ‘Individual Project’ package namely ‘Airports’, ‘Routes’, ‘Node’ and ‘Test’. The Airports and Routes classes contain the fields, constructors, getters, and setters for the various headings in the airports and routes CSV files. The Node class contains the solution path method which keeps track of all the stops, airport codes and airline codes visited. The Test file contained the chunk of information such as code to read from the CSV files, an implementation of the breadth-first search algorithm and creation of inout files to test the BFS Function in order to find the valid path from one city to the other.

All in one, this project was very eye-opening and helped me to think critically and apply programming knowledge in solving real-life problems.