**Reflection**

This was a very insightful project. I learnt how to transfer my knowledge of data structures in python to Java.

I created 6 classes. Airline, Airport, DataReader, Node,Route and RouteFinder, all of which model their real world counterparts. The general idea was to use the RouteFinder class to read the csv files and generate objects for each of them. Thus objects were created for each Airline, Airport and Route entry, and then stored inside hash maps.  
These hash maps were then used to help perform a Breadth first search. I had initially tried to implement an A\* search, however I was only partially successful. My A\* could only find solutions with 1 or 2 flights. As such, I decided to switch to the BFS algorithm. I made the switch to BFS quite close to the deadline and it impacted the quality of my work. This taught me that I should always implement what I know and am comfortable with first, before trying something more advanced. Had I implemented my BFS first, I am quite certain I would have been able to get the A\* to work on my second pass.

Some test cases that I tried and know work are: “Sandane, Norway to Bangkok, Thailand” and “Accra, Ghana to Istanbul Turkey.” I referenced geeksforgeeks quite often for somethings that I had forgotten. For example the exact syntax for file reading and converting various data types to strings.

In retrospect, I would have done some things differently For example, when creating the airport objects, I would not have read all the columns because some data was never used. This would have made reading the csv files a lot easier.