I began this project by importing all the necessary standard packages. Next, I created the class *IndividualProject* and created Arrays *routesData* and *inputData* as well as Hashmaps *airportData* and *airlineData*.

A function was then created to obtain the various Airport IDs from the destination and source cities and countries.

I had the main function throw an IO exception to catch exceptions outside the try-catch IOException function.

Buffered reader and File reader were used to read the three csv files that were provided as well as the input file (Accra-Winnipeg.txt) I created, with a try-catch IOException function to detect exceptions and exit the code upon the occurrence of an exception to avoid the code from continuously looping through the error.

A string array was created for *routes, airlines, airports* and *input* and while their inputs were not null, they were split to help with accessing information in the various files.

The algorithm behind solving the problem involved the use of nodes for looping through the *airportData*, getting an airport that matches the city and country of the source, and comparing its *airportID* with the *routesData*. The *routeArray* that has the same airport ID as the source airport ID is then retrieved and the possible routes are returned. The process keeps repeating itself after that until the search is complete.

Buffered writer and File writer were used to write the output file (Accra-Winnipeg-output.txt).