Reflective Report

Upon receipt of the Project details, I read through the document speedily for the first time to get an idea of the project. During my second reading, this time more vividly, I tried to understand the instructions. I noted down some of the classes that were needed and some of the things that I had to do.

Some of the things included, reading and writing to the file, and deciding on a search algorithm. I created classes for each of the files, that is Airports, Airlines and Routes. In each of those classes, I didn’t implement setters because I believe that for this program, the instance variables won’t need to be changed or updated.

I was cleaning the files first, that is removing the extra “,” that appeared in the file, but I realized that since you will be running the code from your PC, then you will use the same file for everyone.

For the search algorithm, it was challenging having to decide on the efficient one and my ability to code the algorithm. I considered BFS since I deemed it easier to implement but for the sake of optimization, I had to go with uniform cost search which was challenging for me. The challenge was debugging the code both syntactically and semantically. I discussed with my friends to help me debug. I implemented a java version of the uniform cost search algorithm using an python version implemented by my Introduction to Artificial Intelligence Lecturer, Dr. Ayorkoh Korsah. In the implementation, I had to google the java equivalents of things like priority queues since they were exclusive to python alone. I decided to use the number of flights as my means of determining priority.