Individual Project Reflection

Despite all my challenges during this project, my implementation was successful. The challenges I had mainly surrounded the main credit objectives. These challenges are highlighted below.

My initial approach to the project was to use ArrayLists to contain all the values of each file and extract the required columns and append them to another list so I could access them. My thought process to access the data was to use the indices of the specific columns. After accessing the data, I was to compare it to the data in the input file. In the case that they match I would then get the required column data for the output file using the corresponding indices. Additionally, I also tried using a BufferedReader in reading the files.

After realizing I was not very conversant in using the BufferdReader, I decided to switch my whole approach to using a scanner to read each and every file. In doing so, I created multiple while loops to read and append the data. In my new approach I also did not only use ArrayLists, but I combined it with a HashMap. The new HashMap approach contained the airports and the routes based on the destinations they can travel to.

My new approach was effective because, for starters it worked, but more so the implementation was easy to understand as I applied concepts applied from class and searching in Artificial Intelligence. Some of these concepts include HashMaps, final variables and a BFS model.