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**Intermediate Computer Programming**

**Cohort A**

**Dr. Robert Sowah**

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**Reflection**

Upon first glance at the task the individual project required me to accomplish, I got overwhelmed because I could not process the instructions and generate the exact steps needed to complete the task. However, I embarked on this journey filled with life-rethinking bumps, but through perseverance and extensive research, I successfully achieved my goal.

The bumps I faced were with my initial choices of how to solve the problem. The first hurdle I struggled with was separating the information I received from long lines of joint string data using the C++ syntax, which were meant to be split into separate categorical columns of specific data. This struggle was mainly due to me not considering that some data entries from the Comma Separated Value (csv) files were incomplete.

After considering that and solving the preceding issue, the subsequent struggle I met was with my time complexity generated by the process of graphing the routes between the traveller's starting point and their desired destination using edges to encompass the routes and vertices to encompass the airports in question. This was caused by my initial desire to use just a vector and manually map the route the traveller needed to take to reach their desired destination from their current location. Nevertheless, due to my time complexity being excessively high, I switched from my initial thought process of using just a vector to using the help of a map in my mapping process.

To conclude, despite the challenges I faced, I am glad of the journey I have gone through to accomplish the assignment's goal.