**Code implementation:**

* To get desired output we split our code into five files (namely main.cpp, GetPath.cpp, Routes.cpp, Airlines.cpp and Airports.cpp)
* Our Airlines file was mainly concerned with reading information of our airlines.csv file
* Our Routes file was mainly concerned with reading information of our routes.csv file and creating a list that stores information regarding our airline, source airport, destination airport codes and stops of various routes through tuple implementation
* Our Airports file similarly to our airlines and routes file, read information of our airports.csv file and stored information regarding airport codes of various airports across the globe and the respective cities and countries they are located in in a list through tuple information
* Our GetPath file was mainly concerned with generating a valid path by:

1. First importing our routes.cpp, Airlines.cpp and Airports.cpp files
2. Reading information regarding desired departure and arrival locations from our input file name (input\_data.txt) using the set\_departure\_arrival\_info method
3. Determining our airport codes for all possible departure points and arrival subsequently done after we have known the desired departure and arrival locations through the set\_departure\_destination method
4. Determining the route path one can take from departure point to arrival point through implementation of a breadth-first search algorithm using our search\_path method
5. Last but not least, the get\_path method will return a list containing information about source airport and destination codes, airlines code and stops of the various airports that one must pass through from departure point to reach the arrival point.

* Our main file was mainly concerned with creating and writing to our input and output files by:

1. Taking input from our user concerning the preferred departure and arrival points.
2. Writing information concerning our departure and arrival points to the input file.
3. Calling the get\_path method to get a list with valid path information from departure and arrival points.
4. Traversing through the list generated from calling the get\_path method and writing information stored in it to the output file.