JAVA 102 Coding Assessment

**Duration**: 105 minutes

**Guidelines:**

Open book test

Tools to be used: Eclipse

**Problem Statement:**

**Airline Ticket Search**

TravelSmart ©, a new entrant in Airline Ticket Booking and Search, wants to automate the search process and the presentation of search results to its customers.

Develop a search feature for them.

**Specifications:**

1. Information about the various flights is stored in text files in CSV format.
2. Each file contains information about flights for a particular carrier or company with following parameters:

* Flight Number
* Source City
* Destination City
* Fare
* Duration

1. TravelSmart wants to implement functionality to search all available flights between a given Source city and Destination city.
2. The application should take a source city and destination city as input.
3. The output should show details of all flight available between the cities. Show the output on console.
4. The generated search results should be sorted based on one of the following criteria. You can choose any criteria.

* Fare
* Duration

1. Several users may be using this application at the same time, so think about the performance in a real time environment. **Hint**: Consider using multithreading.
2. Handle appropriate exceptions with meaningful messages whenever required.
3. **No User Interface and database are needed.**

Some sample data is attached for your convenience. You can add more records for testing. But do not change the format of the files.



**Deliverables:**

* Name your Java Project in the format **FirstName\_LastName\_Java102**, zip it and email it to facilitator after the given time for coding.
* If you do not name your project in the given format**, it will not be checked**.
* **Any assumptions made with respect to the solution, must be mentioned in the email.**

Evaluation Criteria: Marks will be given based on the following:

1. Approach/Design
2. Coding best practices and Naming Conventions
3. Code completion
4. Working solution
5. Performance in a real time environment.

ALL THE BEST