1. Install Chain Core Ivy: https://chain.com/docs/1.2/ivy-playground/install
2. Copy the single java file in the repository, named CominedSimulation.java
3. Run Chain Core Ivy, and wait for the Chain Core dashboard to be uploaded in the browser
4. Choose ‘create new blockchain network’
5. Make sure the dashboard is clean for your own use.
6. Run CombinedSimulation.java

CombinedSimulation.java:

While running the program, you will have two options available:

1. Check in: enter your name, id and choose your preferred destination among the options.
2. Locate your luggage: enter your name, id and type your chosen destination.

***Check-in:***

The program will simulate the transfer of your suitcase from one place to another using the random function. You can change manually the probability of specific scenarios by yourself (i.e. increase/decrease the probability of losing the suitcase or transfer it to the right destination) by simply changing the value of the following variables:

\**successProbability#1-*probabilty of the suitcase to be successfully delivered to the right plane

\**successProbability#2*-in case the above occurs, the probability the suitcase made the way from the right plane to the right airport.

\**wrongFlight-*probability of the suitcase to be registered to the wrong flight.

\**actualWrongFlight*-probability of the suitcase to be actually delivered to the wrong flight.

\**actualWrongAirport*-probability of the suitcase to be actually delivered from the wrong flight to the wrong airport.

If the suitcase has been delivered successfully to the right destination, proper messages will show up on the screen. If they haven’t you can try to locate your luggage by choosing option number 2 as described above.

**Locate my luggage:**

After entering your personal details, the program will first check if the suitcase has been left in Ben Gurion Airport (i.e. your flight origin). If not, it will check if it has been delivered to the right flight but never actually made it to the airport.

Finally, the program will go over the blockchain’s Asset list and find your current suitcase (i.e. asset) holder.

The final outcome of the above algorithm will be printed to the screen.