

for reference

Python - Javascript

dict = object

list = array

I initialized a registered flight object, this will contain destination and a list value which will contain all the flights.

the function `averageFlightDuration` requires a dictionary/object collection for an argument, it has duration variable which will take a list value by getting the values from the dict, the reduce function from the array type allowed me to sum up all values in durations, the return type will return the result by dividing the sum to the number of durations to get the average.

`filterFlightsByStatus` takes list/array argument, the argument is set for two variable types, booleans and integers, this list changes states when a flight is registered, if a value is of type integer it is available, if its type bool, its no longer available.

`findLongestFlight`, this function takes another dictionary, however, it will be filtered to take the values of each key to check for the max value, i ran a check to identify which key has the same value using an control flow, once i identified the correct key, i logged to show which flight takes the longest, note that the dict/object is associated with destination and duration of the flight.

`groupFlightsByDestination`, this function was very difficult to write as the logic was confusing and some codes were referenced, the starting state checks if the flightnumber is already registered in the registered flights object returning a boolean, if its not registered it will register this flight number to the specified destination, else it will run a check then throw an exception stating this flight number is already on its way to a destination.

the function `sleep` serves as a sleep timer similar to the sleep function in the time module in python, it mainly adds delay to simulate a closing of some flights to indicate another opening.

this space is another referenced from stack overflow, it has the maincode to simulate a real flight situation, i needed the prompt library to ask for user inputs, it was set to constant so it doesnt get

changed as its how its called, the main function runs a while loop that will infinitely loop, the record also gets updates because of groupflight, and updates the user frequently about the state of the flights, the sleep timer comes to create delays between registration and flight, to simulate real time obstacles.

main is just the called main function within the main codebase.