

Airline system using Data structures.

You are tasked with developing an online management system for Kenya Airways. This system will be used by airline administrators to manage flight bookings.

Develop a Python program with the following features:

1. **Implement a function that allows the airline admin to enter flight routes.** You can use any of the data structures (lists, dictionaries, tuples). The function should continue to accept input until the user enters 'quit'. The data structure should contain at least **10 items**. If the user enters less than 10 items, the function should prompt the user to enter more items until there are at least 10 items in the data structure.

Example: In this example, we have a list where each item is a tuple containing the flight number and its route. For instance: `'flight_routes = [('AA101', 'New York to London'), ('AA102', 'London to New York'), ('AA103', 'New York to Paris')]` '.

2. Using the `'flight_routes'` data structure from step 1 and using input from the user, **create a data structure that contains the price of each flight route**. For instance: `'route_price= {'AA101': 500, 'AA102': 450, 'AA103':550}'`.
3. Using the `'flight_routes'` data structure from step 1 and using input from the user, **create another data structure that contains the number of seats available on each flight**. For instance: `'route_seats= {'AA101': 50, 'AA102': 30, 'AA103':40}'`.
4. Using the `'flight_routes'` data structure from step 1 and using input from the user, **create another data structure that records the rating received from passengers for each flight route**. Ratings are scored on a scale from 1 to 5, with 5 indicating maximum passenger satisfaction. For instance: `'route_ratings = {'AA101': 4, 'AA102': 3.5, 'AA103':4.2}`.
5. **Create a set of all unique destinations available in your flight routes. Use a loop to iterate over your flight routes and print out each route along with its price, number of seats, and rating.**
6. **Finally, create a new function that returns the following separate data structures:**
 - A data structure named `'popular_routes'`, which includes routes with a passenger satisfaction rating of 3 or higher.
 - A data structure named `'expensive_routes'`, which includes routes priced above \$500.
 - A data structure named `'few_seats'`, which includes routes with less than 10 seats available.

- A data structure named ``unique_destinations``, which includes all unique destinations available in your flight routes.