

Implement in Python 3 a module (flight.py) containing a Flight class that holds flight details for a specific individual. The properties include departure date and time, arrival date and time, departure and arrival airport codes respectively, ticket cost, ticket agent code, name, and surname. The class, among other things, should contain a method that displays the flight in a human-readable format, for example:

Adan Bridgman, From: Athens, To: Samos, Departure date/time: 2019/03/17 17:20, etc.

Choose your preferred display format (single line, multiple lines, etc.).

Additionally, implement a second module (flightprocess.py) that uses the above module and does the following:

1. Reads the contents of a text file containing flights for various passengers from different agents and creates the corresponding Flight class objects, storing them in a data structure such as a list.
2. Then, iteratively prompts the user for agent codes, and based on the code, displays the list of passenger flights and at the end of the list, the total ticket cost from that particular agent. Define your own encoding that you communicate to the user to terminate the program.

The accompanying text file with passenger flights (flights.txt) is formatted as follows:

```
<agent_code> <from_airport_code-to_airport_code> <departure_date_time>  
<arrival_date_time> <name> <surname> <cost_euros>
```

Note that for the date, the encoding follows a 12-digit code, for example: 202003171720 means 2020/03/17 17:20.

Implement a data structure, such as a dictionary, containing airport code mappings, e.g., SMI->SAMOS. There is a supplementary file (airports.txt) in the specification containing the mappings. This structure should be used so that the airport name is displayed instead of its code.

Note that the text file the program reads has various incompatibilities for different reasons. For example, in some lines, the information is separated by spaces, in others by tabs, multiple spaces, etc. In other places, there is additional text that is irrelevant to the program. Use regular expressions to extract the useful information.