Calculator of cost travel and flights Samuel J. Rengifo A00404150

Analysis

Description: The program will work as a calculator of travel cost and flights which will allow Miguel (passionate traveler) to discover new destinations and explore options for his flights alone or with his friends.

Input:

- 1. String travelAccompanied (Alone Accompanied)
- 2. double passengerW (x>0, x<=109)
- 3. String chooseRate (XS S M)
- 4. String ynSeatSelection (Yes/No)
 - 4.1 String choosePositionSeat (Aisle Middle Window)
- 5. String ynChooseExtraTenSuitcase (Yes/No)
 - 5.1 int amountExtraTenSuitcase (x>0, x<=3)
- 6. **String** ynChooseExtraTwentyTSuitcase (Yes/No)
 - 6.1 int amountExtraTwentyTSuitcase (x>0, x<=2)

Output:

- 1. double totalPassengerToPay (This variable will the individual total for a passenger, it will change depending of the user amount in a FOR loop)
- 2. double travelAccompaniedToPay (Sum of passenger tickets if there's more than one passenger traveling)

Example:

The user is asked if he is traveling alone or accompanied

- -The user says he is traveling alone

The program asks for an approximate weight in kg

- -The user says 9

The program asks for the flight rate to choose

- -The user choose the S rate

The program asks to the user if he wants to select the seat for his flight

- -The user says ves

The program show to user 3 seat positions to choose

- -The user choose window as seat

The program asks to the user if he wants to add extra 10kg suitcases

- -The user says **no**

The program asks to the user if he wants to add extra 23kg suitcases

- - The user says yes

The program asks to the user how many 23kg suitcases he need

- -The user says 1

The program says to the user that the total value of the ticket will be: 383750

Contract methods

Method 1: Welcome | METHOD String

Description: This method will welcome the user and it will ask if he/she is traveling alone or accompanied

@return travelAccompanied

Method 2.1: Rate_XS_Includes | METHOD void

Description: This method will just display information about what the XS rate brings.

Method 2.2: Rate_S_Includes | METHOD void

Description: This method will just display information about what the S rate brings.

Method 2.3: Rate_M_Includes | METHOD void

Description: This method will just display information about what the M rate brings.

Method 2.4: Rate_Recommendation | METHOD void

Description: This method will manage the three possible rates to choose and will display the best one to choose.

Method 3: Choose-Flight-Rate | METHOD String

Description: This method will show to the user a suggested rate depending on the imputed weight. @return chooseRate

Method 4.1: Seat-Selection-XS-S | METHOD Double

Description: This method will display the option to select a seat for the XS and S rates, returning the sum value to the check.

@param double totalPassengerToPay

@return totalPassengerToPay

Method 4.2: Seat-Selection-M | METHOD Double

Description: This method will allow the rate M user to select their seat, returning the sum value to the check.

@param double totalPassengerToPay

@return totalPassengerToPay

Method 5: Extra-10KG-Checked-Suitcase | METHOD Double

Description: This method will allow the user to add extra 10kg suitcases, returning the sum value to the check.

@param double totalPassengerToPay

@return totalPassengerToPay

Method 6: Extra-23KG-Checked-Suitcase | METHOD Double

Description: This method will allow the user to add extra 23kg suitcases, returning the sum value to the check.

@param double totalPassengerToPay

@return totalPassengerToPay

Method 7: Rate-Selection-Menu | METHOD Double

Description: This method will allow you to call a menu for selecting the rate flight, allowing to call it repetitive times when the user is traveling accompanied.

@param String chooseRate

@param double totalPassengerToPav

@return totalPassengerToPay