**Tarea integradora:**

**Analysis:**

**Client:** Miguel

**User**: People who needs to travel by air.

-Airline’s clients.

**Context:**

Miguel needs a software that helps him to plan and to explore different options to travel alone or with friends. In case he does it with friends, it will be with 2 more, what makes it three people.

The software will ask about an approximation of the weight of the luggage of each passenger, that way it can calculate the best plan for it.

|  |  |
| --- | --- |
| Inputs: | Outputs: |
| * Type of traveling (alone or with friends). **[String]** * Approximation of the luggage’s weight. **[Int]** * Plan chosen. **[String]** * Seat chosen (In case it is added by additional services or in M plan). **[String]** * Additional services(Additional bags or luggage). **[String]** | * Show the total price of each Ticket (If its with friends it must show the total price of each of them). **[Int]** * Location of the seat to choose (Plan M or additional service). **[String]** * Show the total of the trip (Only with friends). **[Int]** * Additional services. **[String]** * Possible traveling plans (XS, S or M). **[String]** |

**Example:**

>Welcome to ICESI’s trips planner

------------------------------------------------

>Are you traveling alone or accompanied?

\* Accompanied

>Great, let’s start with you Miguel. Approximately, how much weight do you plan to carry on your luggage?

\*It is approximately 35 kg.

>According to your weight we have the perfect plan for you:

>Plan M ($ 285.375): You would have a personal item (Less than 3 kg), hand luggage of maximum 10 kg, baggage of maximum 23 kg, check-in:web/app or at the airport counter, win miles to get extra benefits and the possibility of choosing your seat on the plane before the check-in.

>This plan is perfect for the luggage’s weight, which plan are you going to choose?

\*M

>Perfect, the M plan lets you choose the location of the seat, do you want it to be at the window, middle or the hall?

\*Middle

>Finally, it is possible to get the next additional services:

>Additional luggage of 10 kgs (3 max).

>Additional baggage of 23 (2 max).

>Do you want to add any of these services?

\*No

>Sure, the total price of Miguel’s flight is: $ 285.375.

>Let’s continue with passenger number 2, Miguel’s friend.

>Approximately, how much weight do you plan to carry on your luggage?

\*It is approximately 2 kg.

>According to your weight we have the perfect plan for you:

>Plan XS ($ 175.000): You would have a personal item (Less than 3 kg, check-in:web/app.

>This plan is perfect for the luggage’s weight, which plan are you going to choose?

\*XS

>Finally, it is possible to get the next additional services:

>Additional luggage of 10 kgs (3 max). $50.000

>Additional baggage of 23 (2 max). $100.000

>Choose seat. $50.000

>Do you want to add any of these services?

\*Yes

>Do you want to add extra luggage of 10 kgs?

\*No

>Do you want to add extra luggage of 23 kgs?

\*No

>Do you want to be able to choose your seat?

\*Yes

> Perfect, The seats are: window, middle or hall. Which one do you want to choose?

\*Window

>Amazing

>The total price of the passenger 2 is: $ 225.000

>Let’s continue with passenger number 3, Miguel’s friend.

>Approximately, how much weight do you plan to carry on your luggage?

\*It is approximately 12 kg.

>According to your weight we have the perfect plan for you:

>Plan S ($ 218.750): You would have a personal item (Less than 3 kg), luggage of maximum 10 kgs, win miles to get extra benefits and check-in:web/app.

>This plan is perfect for the luggage’s weight, which plan are you going to choose?

\*S

>Finally, it is possible to get the next additional services:

>Additional luggage of 10 kgs (3 max). $50.000

>Additional baggage of 23 (2 max). $100.000

>Choose seat. $50.000

>Do you want to add any of these services?

\*No

>Sure, the total price of the passenger 3 is: $ 218.750.

> The total price of the trip is: $ 729.125. Thank you for buying with us, have an amazing trip.

**Contracts:**

**Method 1: Seat**

**Description:** it calculates the price of the seat, in case the user chose it.

@param String seat, it has to be hall, window or middle.

@param String seatpxss, in this case when the user that chose the xs or s plan decided to add choosing the seat.

@param int answer, it has to be an int number: 1 or 0.

@param String plan, it is a string: xs, s or m.

@return double price.

**Method 2: Extra luggage.**

**Description:** It calculates the price of the extra luggage.

@param int confirm, it is an int number: 1 or 0.

@param int qluggage, it is the amount of luggage they want to add, from 1 to 3.

@return price.

**Method 3: Extra baggage.**

Description: It calculates the price of the extra baggage.

@param int confirm, it is an int number: 1 or 0.

@param int qbaggage, it is the amount of luggage they want to add, from 1 to 2.

@return price.

**Method 4: Calculate the total of each ticket.**

**Description:** It takes all the options chosen and gives the total price.

@param double price\_seat.

@param double price\_plan.

@param double luggage.

@param double baggage.

@return double ticket, it returns the price of the chosen options.

**Method 5: Calculate the trip total.**

**Description:** It calculates the price of all the trip.

@param : int ticket\_price, it is another method result.

@retun: int total\_price, it adds all the three tickets to get the total of the trip.

**Method 6: Plan XS**

**Description:** It shows the benefits of choosing the plan XS.

@param : string plan\_xs, it has to be a string.

@return: string message\_XS, it must be a string.

**Method 7: Plan S**

**Description:** It shows the benefits of choosing the plan XS.

@param : string plan\_s, it has to be a string.

@return: string message\_S, it has to be a string.

**Method 8: Plan M**

**Description:** It shows the benefits of choosing the plan XS.

@param : string plan\_m, it has to be a string.

@return: string message\_M, it has to be a string.

**Method 9: Plan´s prices**

**Description:** it is a method that calculate the prices of each plan.

@param String plan, it is a string: xs, s, m.

@return price\_plan, price of the plan choosen.

**Method 10: Weight verification**

**Description:** it verificates what plans can be used according to the weight given.

@param double weight.

**Method 11: Verification that the answer it alone or with friends**

**Description:** It verificates that the answer of the first question is alone or with friends.

@param int answer, it is an int number: 1 or 0.

@return boolean people.

**Method 12: Specific weight verification**

**Description:** It verificates that the weight is not a negative number.

@param double weight.

@return boolean wluggage.

**Method 13: Specific weight verification**

**Description:** It verificates that the answer is one of the plans available and that that the weight fits the plan.

@param String plan, it is a string: xs, s or m

@param double weight.

@return boolean planv.

**Method 14: Baggage verification**

**Description:** it verificates that the amount of baggage is according to the range given.

@param int extra\_luggage.

@return boolean luggage.

**Method 15: Luggage verification**

**Description:** it verificates that the amount of luggage is according to the range given.

@param int extra\_luggage.

@return boolean luggage.