Problem 1

Write test cases for calculator of shipping

Url: https://onex.am

Problem 1.

First attempt

Test scenario	Test case	Test steps	Pre-Condition	Test Data	Expected Results	Actual results	Status
Checking shipping calculator functionality	*Check the calculator with valid item weight	*Enter the number in specified field	*The warehouse country, shipping method and measurement unit should be selected	*10kg *5kg *2kg	*Calculation should be successful	*Calculated successfully	*Pass

Second attempt

Here we will try testing with decimal numbers. This case is again considered testing with valid input, because there are items which weight is not pure integer.

Test scenario	Test case	Test steps	Pre-Condition	Test Data	Expected Results	Actual results	Status
Checking shipping calculator functionality	*Check the calculator with valid item weight	*Enter the number in specified field	*The warehouse country, shipping method and measurement unit should be selected	*1.5kg *5.5kg *2.5kg	*Calculation should be successful	*Calculated successfully	*Pass

In this attempt it is important to do checking with both comma and dot (2.5 and 2,5) as a decimal separator. This case depends on product specification, whether the client wants to have decimal separator with dot or comma.

Third attempt

Test scenario	Test case	Test steps	Pre-Condition	Test Data	Expected Results	Actual results	Status
Checking shipping calculator functionality	*Check the calculator with invalid item weight	*Enter the negative number in specified field	*The warehouse country, shipping method and measurement unit should be selected	*-5kg *-10kg *-2kg	*Calculation should be unsuccessful	*No calculation results	*Pass

Fourth attempt

Checking the rounding feature. Again here it depends on whether the rounding should be done to the nearest high integer, nearest small integer or based on mathematical rules.
As in our case the rounding is done based on mathematical rules, this means that .5 and higher decimal part should be rounded up, and less than .5 decimal part should be rounded down so the case will be as follows:

Test scenario	Test case	Test steps	Pre-Condition	Test Data	Expected Results	Actual results	Status
Checking shipping calculator functionality	*Check the calculator with valid item weight	*Enter the number in specified field	*The warehouse country, shipping method and measurement unit should be selected	*2.99999 kg **2.11111 kg	*Calculation should be successful	*Calculated successfully: with rounded up case. **Calculated successfully: with rounded down case.	*Pass

Fifth attempt

In this attempt we will check extremal cases. The input of zero (there should be a minimal weight range where the weight cost will not be calculated and the fixed shipping unit cost must be kept) and input of the very large weighted items. Again here it depends whether the calculator should handle those big numbers or not because there cannot even be that kind of items in the page. Suppose our calculator should handle big numbers so the case will look as follows.

Test scenario	Test case	Test steps	Pre-Condition	Test Data	Expected Results	Actual results	Status
Checking shipping calculator functionality	*Check the calculator with valid item weight	*Enter the number in specified field	*The warehouse country, shipping method and measurement unit should be selected	*500000000 Kg ** 0 up to specified minimum range	*Calculation should be successful **Calc. should be successful, here it means nothing will be changed	*Calculated successfully ** The minimum cost fare will remain unchanged	*Pass

To sum up above mentioned cases we listed under the specific pre-conditions. Here the following pre-conditions were selected:

- Warehouse country – USA
- Shipping type – Online Purchase
- Shipping way – Air
- Measurement unit – Kg

The predetermined conditions must be changed and all cases should be done in those changed conditions as well and see whether the calculator is working accurate with determined fares.