**Program #1: Meal pricing**

Problem Description: Find the cost of 2 items purchased by the customer and print the output.

Program Description:

**ItemToPurchase** class forming the blueprint that constitute basic elements as

* The **constructor,** initiating the item elements
* The **print\_item\_cost** method,forcalculating the total cost

1. User is requested to input I tem1 and item2 details
2. **purchase\_items1** and **purchase\_items2** are the 2 objects that instantiate item elements using the inputs provided on (a).
3. **purchase\_items1** calls the **print\_item\_cost** methodto calculate the total cost of item1
4. **purchase\_items2** calls the **print\_item\_cost** methodto calculate the total cost of item2
5. On the main section of the program the total cost of the items will be evaluated summing **purchase\_items1.** **total\_cost & purchase\_items2.** **total\_cost**

Print the ‘total\_amount\_to\_be\_paid’ value to the output screen

**GitHub link:** <https://github.com/sahiraj15/aiml/blob/main/csc500/m4_items_to_purchase.py>

**Results:**

**Use case #1**: Entering prices in integers

Inputs:

|  |  |  |  |
| --- | --- | --- | --- |
| Item Name | Item Price | Item Quantity | Result |
| Chocolate Chips | $3 | 1 | Pass |
| Bottled Water | $1 | 10 |

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**Use case #2**: Entering prices in decimals (0s)

Inputs:

|  |  |  |  |
| --- | --- | --- | --- |
| Item Name | Item Price | Item Quantity | Result |
| Chocolate Chips | $3.0 | 1 | Pass |
| Bottled Water | $1.0 | 10 |

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Display the output in integers as the decimal point is 0.

**Use case #3**: Entering prices in decimals (Non 0s)

Inputs:

|  |  |  |  |
| --- | --- | --- | --- |
| Item Name | Item Price | Item Quantity | Result |
| Chocolate Chips | $3.2 | 1 | Pass |
| Bottled Water | $1.5 | 10 |

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**Use case #4**: Negative test cases

Inputs:

|  |  |  |  |
| --- | --- | --- | --- |
| Item Name | Item Price | Item Quantity | Result |
| Chocolate Chips | -$3 | 1 | FAIL |
| Bottled Water | $1 | 10 |

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Same applied for Item2 price as well.

**Use case #5**: Item Quantity = 0 or negative

Inputs:

|  |  |  |  |
| --- | --- | --- | --- |
| Item Name | Item Price | Item Quantity | Result |
| Chocolate Chips | $3 | 1 | FAIL |
| Bottled Water | $1 | 0 |

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