



**Edge Hill University**

**Faculty of Arts and Sciences**

The Department of Computer Science

**CIS1702**

**Programming 1**

Level 4

Coursework 2 (Full Test Document)

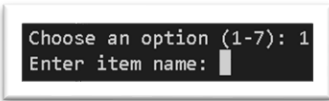
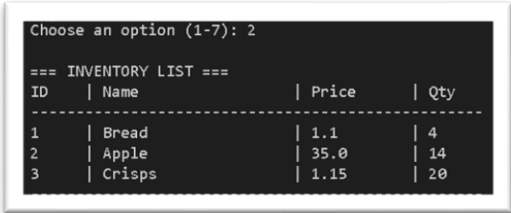
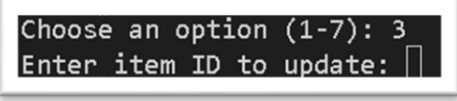
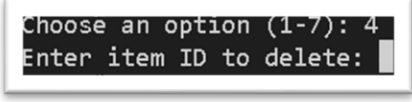
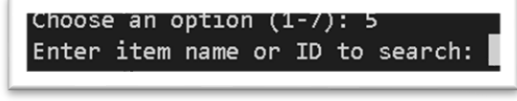
2025/2026

## Programming 1: Full Test Document

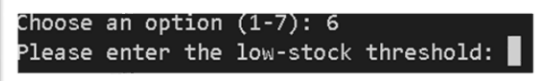
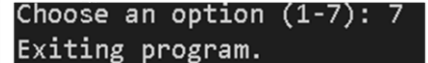
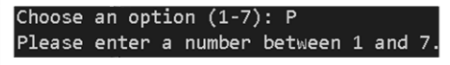
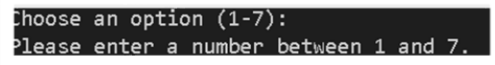
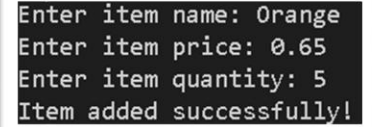
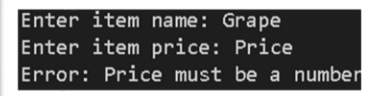
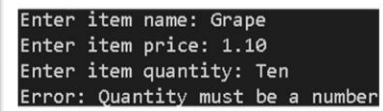
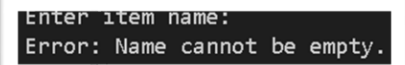
### Full Test Table

This test table seen in Table 1 comprehensively tests the entire command-line application to ensure inputs are validated correctly and to ensure the correct outputs are given and to ensure the application works correctly as intended.

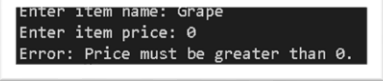
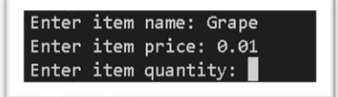
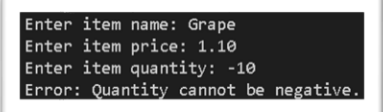
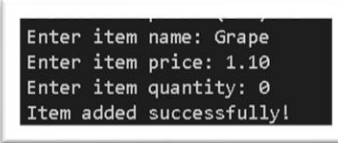

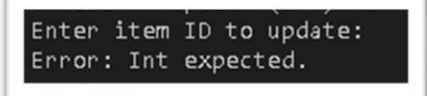
Table 1

Test ID	Test	Test Data	Expected Result	Actual Result	Pass / Fail	Further Action
1	Test Menu Input	1 – normal	The program should prompt me with to enter the new items name.		Pass	NA
2	Test Menu Input	2 – Normal	The program should show a table of the current stock.	 <pre>Choose an option (1-7): 2 === INVENTORY LIST === ID    Name        Price    Qty ----- 1     Bread       1.1      4 2     Apple       35.0     14 3     Crisps      1.15     20</pre>	Pass	NA
3	Test Menu Input	3 – Normal	The program should prompt the user with the product they want to update.		Pass	NA
4	Test Menu Input	4 – Normal	The program should prompt the user to enter the item they want to delete.		Pass	NA
5	Test Menu Input	5 – Normal	The program should prompt the user with the item they want to search for.		Pass	NA

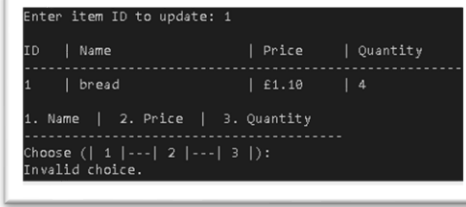
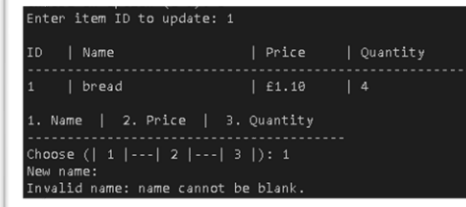
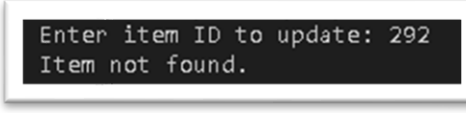
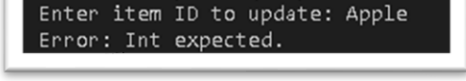
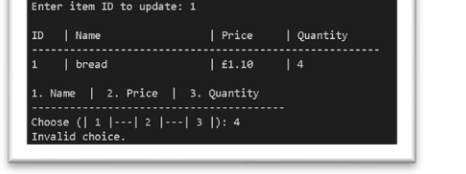
## Programming 1: Full Test Document

6	Test Menu Input	6 - Normal	The program should prompt the user to enter the threshold for the level of low-stock.		Pass	NA
7	Test Menu Input	7 – normal	The program should save and exit the program.		Pass	NA
8	Test Menu Input	P – erroneous	The program should not accept this input and give an error message.		Pass	NA
9	Test Menu Input	Null - Erroneous	The program should not accept no input and display an error message.		Pass	NA
11	Enter New Item	Orange – Normal 0.65 – Normal 5 – Normal	The program should accept these values and add the item to the inventory.		Pass	NA
12	Enter New Item	Grape – Normal Price – Erroneous	The program should not accept this price.		Pass	NA
13	Enter New Item	Grape – Normal 1.10 – Normal Ten - Erroneous	The program should not accept this quantity		Pass	NA
14	Enter New Item	Null – Erroneous	The program should not accept this item name		Pass	NA

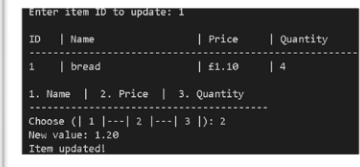

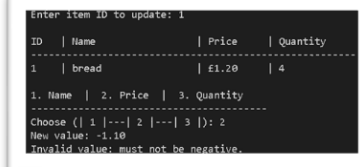
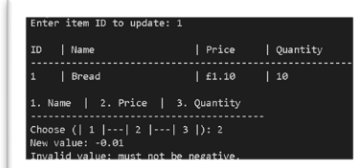
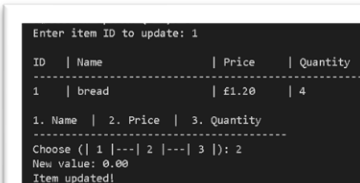
## Programming 1: Full Test Document

15	Enter New Item	Grape – Normal 0 – Erroneous	The program should not accept this price	 <pre>Enter item name: Grape Enter item price: 0 Error: Price must be greater than 0.</pre>	Pass	NA
16	Enter New Item	Grape – Normal 0.01 – Extreme	Even though the value is just above 0 it should still be accepted by the program.	 <pre>Enter item name: Grape Enter item price: 0.01 Enter item quantity:  </pre>	Pass	NA
17	Enter New Item	Grape – Normal 1.10 – Normal -10 – Erroneous	The program should not accept negative quantity amounts.	 <pre>Enter item name: Grape Enter item price: 1.10 Enter item quantity: -10 Error: Quantity cannot be negative.</pre>	Pass	NA
18	Enter New Item	Grape – Normal 1.10 – Normal 0 – Extreme	The program should still accept this value even though it is on the border of being a negative number.	 <pre>Enter item name: Grape Enter item price: 1.10 Enter item quantity: 0 Item added successfully!</pre>	Pass	NA
19	Update Item Name	1 – Normal 1 – Normal bread - normal	The program should accept these values and update the name of the inventory item “Bread” to “bread”.	 <pre>Enter item ID to update: 1  ID   Name   Price   Quantity ----- 1   Bread   £1.10   4  1. Name   2. Price   3. Quantity ----- Choose (  1  ---  2  ---  3  ): 1 New name: bread Name updated!</pre>	Pass	NA
20	Update Item: Enter ID	Null – Erroneous	The program should not accept this value	 <pre>Enter item ID to update: Error: Int expected.</pre>	Pass	NA


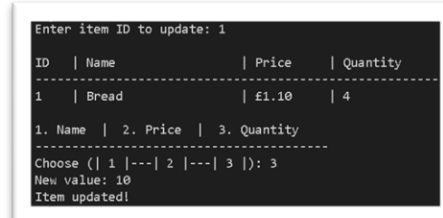


## Programming 1: Full Test Document

21	Update Item: Enter Selection	1 – Normal Null – Erroneous	The program should not accept this value		Pass	NA
22	Update Item Name	1 – Normal 1 – Normal Null – Erroneous	The program should not accept this value		Pass	NA
23	Update Item: Enter ID	292 – Erroneous	This item does not exist within the inventory so it should not be accepted		Pass	NA
24	Update Item: Enter ID	Apple – Erroneous	Although this does exist it isn't the ID so the program should not accept this value.		Pass	NA
25	Update Item: Enter Selection	1 – Normal 4 – Erroneous	4 is not an option so the program should not accept this input.		Pass	NA

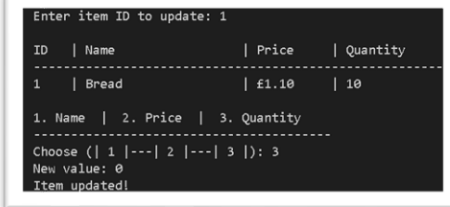
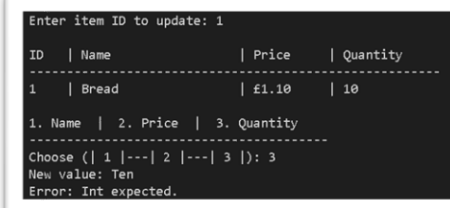
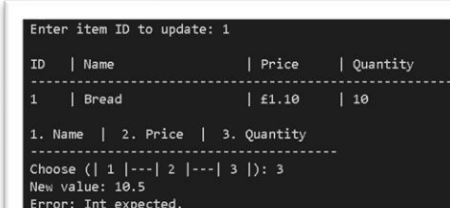
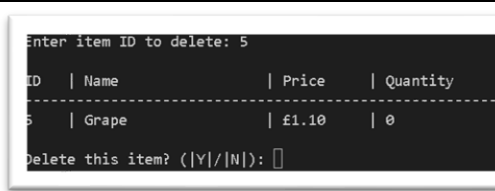
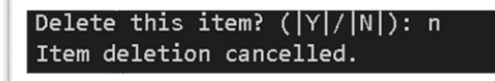
## Programming 1: Full Test Document

26	Update Item Price	1 – Normal 2 – Normal 1.20 – Normal	The program should accept this value		Pass	NA
27	Update Item Price	1 – Normal 2 – Normal Null – Erroneous	The program should not accept this value.		Pass	NA
28	Update Item Price	1 – Normal 2 – Normal -1.10 – Erroneous	The program should not accept negative values.		Pass	NA
29	Update Item Price	1 – Normal 2 – Normal -0.01 – Extreme	The program should not accept this value even though it is an extreme example of negative value.		Pass	NA
30	Update Item Price	1 – Normal 2 – Normal 0.00 – Erroneous	The program should not accept a price of 0.00.		Fail	This will need to be updated and tested again.

## Programming 1: Full Test Document

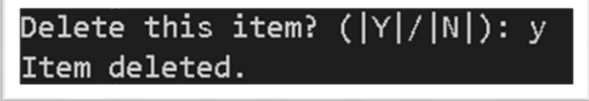
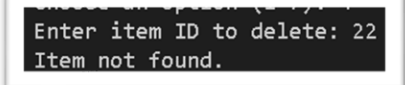
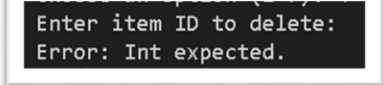
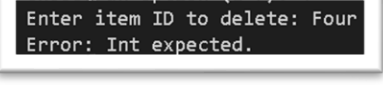
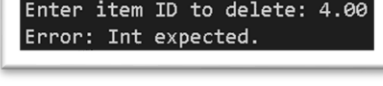
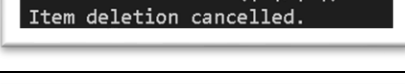
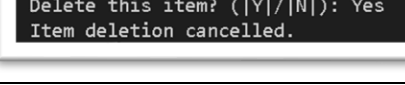
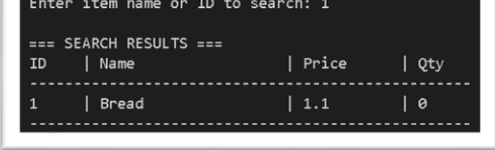
31	Update Item Price	1 – Normal 2 – Normal Ten – Erroneous	The program should not accept a string as a price.		Pass	NA
32	Update Item Quantity	1 – Normal 3 – Normal 10 – Normal	The program should accept this value and update the quantity of bread in the inventory.		Pass	NA
33	Update Item Quantity	1 – Normal 3 – Normal Null – Erroneous	The program should not accept this value.		Pass	NA
34	Update Item Quantity	1 – Normal 3 – Normal -10 – Erroneous	The program should not accept negative quantities being inputted into the program		Pass	NA

## Programming 1: Full Test Document

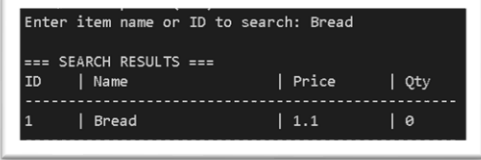
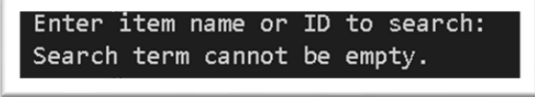
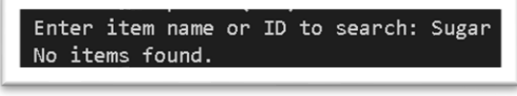
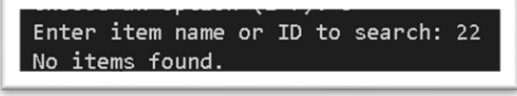
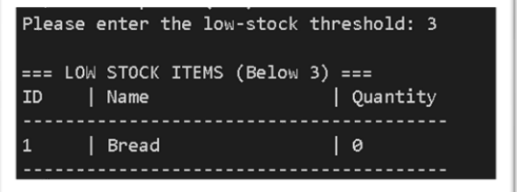
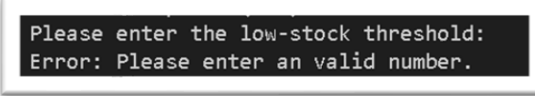
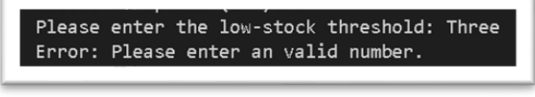
35	Update Item Quantity	1 – Normal 3 – Normal 0 – Extreme	This is almost a negative value however it should still be accepted by the program.		Pass	NA
36	Update Item Quantitiy	1 – Normal 3 – Normal Ten – Erroneous	The program should not accept string values.		Pass	NA
37	Update Item Quantity	1 – Normal 3 – Normal 10.5 – Erroneous	The program should not accept float values for the quantity.		Pass	NA
38	Delete Item	5 – Normal	The program should accept the ID of 5 and then ask if the user is sure they want to delete the item with the item ID of 5.		Pass	NA
39	Delete Item	5 – Normal N – Noraml	The program should not delete the item now the user enters the letter N.		Pass	NA





## Programming 1: Full Test Document

40	Delete Item	5 – Normal y - Normal	The program should accept this value and delete the product from the inventory despite it being lower case.		Pass	NA
41	Delete Item: Enter ID	22 – Erroneous	The program should not accept this value as there is no item ID of 22.		Pass	NA
42	Delete Item: Enter ID	Null – Erroneous	The program should not accept this value.		Pass	NA
43	Delete Item: Enter ID	Four – Erroneous	The program should not accept string values.		Pass	NA
44	Delete Item: Enter ID	4.00 – Erroneous	The program should not accept float values.		Pass	NA
45	Delete Item: Deletion Confirmation	4 – Normal Null – Erroneous	The program should not accept this value and cancel the deletion of the item.		Pass	NA
46	Delete Item: Deletion Confirmation	Yes - Erroneous	The program should not accept this value and should cancel the deletion of the item.		Pass	NA
47	Search for Item	1 - Normal	The program should find the item with the item ID of 1. In this case Bread.		Pass	NA

## Programming 1: Full Test Document

48	Search for Item	Bread – Normal	The program should find the item based on the name given.	 <pre> Enter item name or ID to search: Bread  === SEARCH RESULTS === ID     Name         Price    Qty ----- ----- ----- ----- 1      Bread        1.1      0 </pre>	Pass	NA
49	Search for Item	Null – Erroneous	The program should not accept this input.	 <pre> Enter item name or ID to search: Search term cannot be empty. </pre>	Pass	NA
50	Search for Item	Sugar – Erroneous	The program should display a message telling the user the product is not found, within the inventory.	 <pre> Enter item name or ID to search: Sugar No items found. </pre>	Pass	NA
51	Search for Item	22 - Erroneus	The program should display a message telling the user the product is not found, within the inventory.	 <pre> Enter item name or ID to search: 22 No items found. </pre>	Pass	NA
52	Low Stock Report	3 – Normal	The program should find all the products that are less than or equal to 3 in quantity.	 <pre> Please enter the low-stock threshold: 3  === LOW STOCK ITEMS (Below 3) === ID     Name         Quantity ----- ----- ----- 1      Bread        0 </pre>	Pass	NA
53	Low Stock Report	Null – Erroneous	The program should not accept an empty input.	 <pre> Please enter the low-stock threshold: Error: Please enter a valid number. </pre>	Pass	NA
54	Low Stock Report	Three – Erroneous	The program should not accept string values.	 <pre> Please enter the low-stock threshold: Three Error: Please enter a valid number. </pre>	Pass	NA

## Programming 1: Full Test Document

55	Low Stock Report	3.00 – Erroneous	The program should not accept float values.		Pass	NA
56	Update Item Price	1 – Normal 2 – Normal 0.00 – Erroneous	The test should not accept a price of 0.00. And should give an error.		Pass	NA  The code has been updated and now the program no longer accepts price values of £0.00.

This comprehensive test table fully tests inputs that the user could implement and identifies which inputs need to be validated better and if the validation implemented is appropriate, furthermore the test plan ensures that the entire system works as intended before it is given to the client.