Test Cases

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| Test Case (input) | Purpose | Expected Result | Actual Result |
| 1  1  100 | To check whether you can set the first object’s stock to 100. | Updated stock item printed out, with its “Total units in stock” set to 100. | “Printing item stock information:  Stock Category: Car accessories  Stock Type: Navigation System  Description: GeoVision Sat Nav  StockCode: NS101  PriceWithoutVat: 99.99  PriceWithVat: 117.49  Total units in stock: 100  Brand: TomTom” |
| 1  2  100 | To check whether you can set the first object’s price to £100. | Price of item should increase to £100 before VAT and set to £117.50. | “Printing item stock information:  Stock Category: Car accessories  Stock Type: Navigation System  Description: GeoVision Sat Nav  StockCode: NS101  PriceWithoutVat: 100.0  PriceWithVat: 117.5  Total units in stock: 100  Brand: TomTom” |
| 1  3  1 | To check whether you can increase the stock of an object by 1. | Stock of item should increase from 10 to 11. | “Printing item stock information:  Stock Category: Car accessories  Stock Type: Navigation System  Description: GeoVision Sat Nav  StockCode: NS101  PriceWithoutVat: 99.99  PriceWithVat: 117.49  Total units in stock: 11  Brand: TomTom” |
| 1  3  0 | Whether you can increase the stock of an object by 0. | Stock should not increase as 0 is less than 1 and 1 is the minimum you can increase the stock by. | “ERROR: Value entered is too low, please try again with a value of one or higher!  …  Total units in stock: 10  …” |
| 1  3  91 | Whether you can increase an object which already has stock of 10 by 91 to 101. | Stock should not increase as the program should stop you from having over 100 units in stock. | “ERROR: Cannot have stock over 100 for this item!  …  Total units in stock: 10  …” |
| 1  4  0 | Sell 0 units. | Should not decrease as you can’t sell less than 1. | “ERROR: Cannot sell less than one of an item!  …Total units in stock: 10  …” |
| 1  4  1 | Sell 1 unit. | Units in stock should decrease from 10 to 9. | “…  Total units in stock: 9  …” |
| 1  4  11 | Sell 11 units. | Units in stock should not decrease as there are only 10 units in stock. | “  ERROR: Cannot sell more stock than is available!  …  Total units in stock: 10” |
| 2  1  100 | To check whether you can set other object’s stock to 100. (Same test again, just on another object) | Updated stock item printed out, with its “Total units in stock” set to 100. | Printing item stock information:  Stock Category: Car accessories  Stock Type: Speaker  Description: Surround Sound  StockCode: TS670  PriceWithoutVat: 29.99  PriceWithVat: 35.24  Total units in stock: 100  Brand: Pioneer |
| 2  2  100 | To check whether you can set the other object’s price to £100. (Same test again, just on another object) | Price of item should increase to £100 before VAT and set to £117.50. | Printing item stock information:  Stock Category: Car accessories  Stock Type: Speaker  Description: Surround Sound  StockCode: TS670  PriceWithoutVat: 100.0  PriceWithVat: 117.5  Total units in stock: 50  Brand: Pioneer |
| 2  3  1 | To check whether you can increase the stock of an object by 1. (Same test again, just on another object) | Units in stock should increase to 51. | “Total units in stock: 51” |
| 2  3  0 | Whether you can increase the stock of an object by 0. (Same test again, just on another object) | Units should not increase. | “ERROR: Value entered is too low, please try again with a value of one or higher!  …  Total units in stock: 50” |
| 2  3  91 | Whether you can increase an object which already has stock of 10 by 91 to 101. (Same test again, just on another object) | Units should not increase. | “ERROR: Cannot have stock over 100 for this item!  …  Total units in stock: 50” |
| 2  4  0 | Sell 0 units. (Same test again, just on another object) | Units should not decrease. | “ERROR: Cannot sell less than one of an item!  …  Total units in stock: 50” |
| 2  4  1 | Sell 1 unit. (Same test again, just on another object) | Units should decrease from 50 to 49. | “Total units in stock: 49” |
| 2  4  51 | Sell 51 units. (Same test again, just on another object) | Units should not decrease. | “ERROR: Cannot sell more stock than is available!  …  Total units in stock: 50” |
| REPEATED TESTS | AGAIN FOR OTHER | OBJECTS WITH | SAME RESULTS! |
| 0 | Inputting zero when asked which object you would like to select, out of 1-4. | An error should be shown, and the user prompted again. | “ERROR: This is not a valid option!  Which stock item would you like to interact with? :” |
| 5 | Inputting 5 when asked which object you would like to select, out of 1-4 | An error should be shown, and the user prompted again. | “ERROR: This is not a valid option!  Which stock item would you like to interact with? :” |
| 1 | Inputting 1 when asked which object you would like to select, out of 1-4 | The user should be shown the object they have selected and then be asked what they would like to do to the object. | “Which stock item would you like to interact with? : 1  Printing item stock information:  Stock Category: Car accessories  …  Brand: TomTom  MENU  [1] Set Quantity  [2] Set Price  [3] Increase Stock  [4] Sell Stock  What would you like to do to this stockitem?:” |
| 1  0 | Inputting 0 when asked which function, they would like to perform, out of 1-4. | The user should be shown an error and the user prompted again. | “ERROR: This is not a valid option!  What would you like to do to this stockitem?:” |
| 1  5 | Inputting 5 when asked which function, they would like to perform, out of 1-4 | The user should be shown an error and the user prompted again. | “ERROR: This is not a valid option!  What would you like to do to this stockitem?:” |
| 1  2 | Inputting 2 when asked which function, they would like to perform, out of 1-4 | The user should be asked what they would like to set the new price of the object to. | “What would you like to set the new price as?:” |
| 1  2  100  Yes | When asked if the user would like to run the program again, the user enters yes/YES/Yes. | The program should run from the start. | “Printing item stock information:  …  …  …  Brand: Scosche  Which stock item would you like to interact with? : “ |
| 4  4  1  No | When asked if the user would like to run the program again, the user enters no/NO/No | The program should cease running. | “(base) jackdouet@Jacks-MacBook-Pro-2 NEW coursework %” |
| 3  3  5  Testing | When asked if the user would like to run the program again, the user enters anything other than yes or no. | The user should be told that they have entered an invalid choice and asked again whether they would like the program to be run again. | “ERROR: This is not a valid option!  Would you like to run the program again? (Yes / No)?:” |