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| Input | Data Type | Example Input | Expected Output | | Actual Output |
| First Name | Valid Data | Jeff, Bob | | Will only accept ascii / letters. | Accepts input and passes it on |
| First Name | Invalid Data | 110, \*(&#, “” (blank) | | First name must be letters, no symbols or numbers or blanks | Throws error (calls error box). Clears input |
| Last Name | Valid Data | Jeff, Bob | | Will only accept ascii / letters | Accepts input and passes it on |
| Last Name | Invalid Data | 110, \*(&#, “” (blank) | | Last name must be letters, no symbols or numbers or blanks | Throws error (calls error box). Clears input |
| Checkbox/ Toggle | Boolean | True or False | | Accepts either true or false and updates values accordingly | Gracefully handles toggles |
| Item quantity | Valid Data | 1-500 | | Will only accept numbers from 1 to 500 | Accepts input and passes it on |
| Item quantity | invalid Data | -1,(\*&@\*&!#, 892oiuqw, | | Doesn’t accept values other than 1 to 500 | Throws error (calls error box). Clears input |
| Submit Button | Valid Data | User click | | User clicks on the buttons, and an appropriate command / function will run. | Gracefully handles button presses |
| Message box | Invalid Data | User enters incorrect / invalid input | | Clears the input if necessary and tells the user where the invalid entry and item is, and it’s index ( if applicable to the entry) | User can continue after pressing OK / accepting the error |

Testing

**Debugging (Below add your debugging/fixes/modifications made)**

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| Error | Modifications / Fixes / Debug |
| Traceback (most recent call last):  File "c:\Users\23040\OneDrive - Lynfield College\2025\2PAD\Lee\_AS91897\_AS91896\test1.py", line 21, in <module>  for position, item in l:  ^^^^^^^^^^^^^^  ValueError: too many values to unpack (expected 2) | Can’t iterate through the list (for l because the there are too many values. I am using a counter and a variable. Therefore it needs a tuple as the input for the for loop . To fix this, I have to use the enumerate function, which turns each object in the list to a counter AND the list item.  Changed:  for position, item in l:  To:  for position, item in enumerate(l): |
| Traceback (most recent call last):  File "c:\Users\23040\OneDrive - Lynfield College\2025\2PAD\Lee\_AS91897\_AS91896\test1.py", line 38, in <module>  quantity\_var.trace\_add("write", check\_totals())  ^^^^^^^^^^^^  NameError: name 'check\_totals' is not defined | Can’t find function check\_totals(). This is because the function appears after the this element. To fix this I have to add lambda.  Changed:  quantity\_var.trace\_add("write", check\_totals())  To:  quantity\_var.trace\_add("write", lambda: check\_totals()) |
| Exception in Tkinter callback  Traceback (most recent call last):  File "C:\Program Files\Python312\Lib\tkinter\\_\_init\_\_.py", line 1967, in \_\_call\_\_  return self.func(\*args)  ^^^^^^^^^^^^^^^^  TypeError: <lambda>() takes 0 positional arguments but 3 were given | Too many arguments into the lambda function. I need to add \*args so I can input more arguments.  Changed:  quantity\_var.trace\_add("write", lambda: check\_totals())  To:  quantity\_var.trace\_add("write", lambda \*args: check\_totals()) |
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