Form Testing “Average Units Shipped”

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For each of you event handlers create a copy of the table below to list all of the cases you will need to test.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Event Handler: | | | | |
| User action | Input | Purpose | Response | |
| Desired | Actual |
| Clicks exit button | Width: any  Length: any | Testing the exit button that closes the program | The program closes once the exit button is pressed | the program closes |
| Clicks Enter buttons | Unit Entered: Null Value | Test to see if the program will further continue with the calculation even with an empty value | The program should display a message box encouraging the user to fill out the required inputs | The program displayed the appropriate message box |
|  | Unit Entered:  Rational number | Testing the validation input for rational numbers | A message box appears “unit cannot be stored as a fraction” | The program displayed the appropriate message box |
|  | Unit Entered:  Any word | Testing validation if string | A message box appears “units must be whole numbers to proceed with calculation” | The program displayed the appropriate message box |
|  | Unit Entered:  Negative number | Testing validation if the units are negative or positive number | A message box appears “unit count for the day cannot be negative number” | The program displayed the appropriate message box |
|  | Unit Entered:  Whole number | To test if the button will do the proper calculations | The Unit is stored in the array and day increments. if 7th day reach, proceed with calculation. | The form displayed the calculated average |
| Clicks Reset buttons | Width: any  Length: any | Testing if the reset button clears all the units entered and displayed | Stored units in list box and array should be emptied, day restarts at day 1 and focuses on texbox. | The button resets the values |

# Pseudocode:

btnExit\_Click

close the program

btnReset\_Click

clear list box;

clear unitPerDay array;

enable textbox for units entered;

focus textbox for units entered;

reset average calculation to default value;

restart day display;

btnEnter\_Click

While(input is not equal to array length)

{

If(entered input is null)

{message box for null value}

Else if(entered input is float)

{message box for float input}

Else if(entered inout is negative)

{message box for negative innput}

Else

{

store number in array and listbox

increment count

}

Focus on textbox

}

If(input count is same as array length)

Calculate and display the average