Assignment 02 – Form Testing

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| **Event Handler: txtPercent\_LostFocus()** | | | | | |
| **User Action** | **Input** | **Purpose** | **Response** | | |
| **Desired** | **Actual** |
| Presses Tab/Click away from textbox | Aa | Display error message for invalid input | Error: Invalid Input, must be numeric  Highlight invalid input and set focus | Error: Invalid Input, must be numeric  Highlight invalid input and set focus |
| 123 | Display error message for invalid input | Error: Invalid Input, must be in range  Highlight invalid input and set focus | Error: Invalid Input, must be in range  Highlight invalid input and set focus |
| 83.5 | Assign a letter grade to the associated label | Assign a letter grade (A-) and move onto next textbox | Assign a letter grade (A-) and move onto next textbox |
| Press Enter/Click Calculate | Any | Perform btnCalculate\_Clicked() | Perform btnCalculate\_Clicked() | Perform btnCalculate\_Clicked() |
| Press Esc/Click Reset | Any | Perform btnReset\_Clicked() | Perform btnReset\_Clicked() | Perform btnReset\_Clicked() |

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| **Event Handler: btnCalculate\_Click()** | | | | | |
| **User Action** | **Input** | **Purpose** | **Response** | | |
| **Desired** | **Actual** |
| Press Enter/Click Calculate/Tab to Calculate and press enter | All/Some empty | Display error message for each invalid textbox | Error: Invalid Input, must be numeric and in range (for each empty box) | Error: Invalid Input, must be numeric and in range (for each empty box) |
| All/Some not numeric | Display error message for each invalid textbox | Error: Invalid Input, must be numeric and in range (for each non-numeric box) | Error: Invalid Input, must be numeric and in range (for each non-numeric box) |
| All/Some not in range | Display error message for each invalid textbox | Error: Invalid Input, must be numeric and in range (for each box out of range) | Error: Invalid Input, must be numeric and in range (for each box out of range) |
| All valid | Calculate the semester average and letter grade | Calculate the semester average and show in the semester percent label, and also assign the semester grade label the appropriate letter grade.  Disable all textboxes and Calculate | Calculate the semester average and show in the semester percent label, and also assign the semester grade label the appropriate letter grade.  Disable all textboxes and Calculate |
| **Event Handler: btnReset\_Click()** | | | | | |
| **User Action** | **Input** | **Purpose** | **Response** | | |
| **Desired** | **Actual** |
| Press Esc/Click Reset Button/Tab to Reset button and press enter | Any state | Reset the form to original state | Clear the text of all textboxes and labels with a Fixed3D border, and enable all textboxes as well as the Calculate button | Clear the text of all textboxes and labels with a Fixed3D border, and enable all textboxes as well as the Calculate button |

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| **Event Handler: btnExit\_Click()** | | | | | |
| **User Action** | **Input** | **Purpose** | **Response** | | |
| **Desired** | **Actual** |
| Click Exit Button/Tab to Exit button and press enter/Click the X in the control box | Any state | Close the form | Closes the form | Closes the form |