***Assignment 1 Test Plan***

**Application Loading Screen**

|  |  |  |
| --- | --- | --- |
| Condition | Input | Result |
| Loading Calculator | Alt+F4 | This will close the application |
| Loading Calculator | All other keyboard or mouse clicks | Nothing happens. Loading screen keeps going. |
| Loading Calculator | Moise movement | Loading cursor |

**Checkbox**

|  |  |  |
| --- | --- | --- |
| Condition | Input | Result |
| Int is selected | Int is selected | Error changes to Yellow background and letter changes to F.  The dot button is enabled again.  All data is reset to 0.  Precision returns to default setting of .00 |
| Int is selected | (ERROR STATE) Int is selected | Error button remains RED and the letter remains E.  Precision returns to default setting of .00  The dot button is enabled again but the button will not respond while in error state |

**Keyboard input**

|  |  |
| --- | --- |
| Input | Result |
| Numpad 7, 7 | Display 2 displays a 7 at the end |
| Numpad 8, 8 | Display 2 displays an 8 at the end |
| Numpad 9, 9 | Display 2 displays a 9 at the end |
| Numpad /, / | Sets arithmetic operation to division and add a “/” at the end of display 2 |
| Numpad 4, 4 | Display 2 displays a 4 at the end |
| Numpad 5, 5 | Display 2 displays a 5 at the end |
| Numpad 6, 6 | Display 2 displays a 6 at the end |
| Numpad \* | Sets arithmetic operation to multiply and add a “\*” at the end of display 2 |
| Numpad 1, 1 | Display 2 displays a 1 at the end |
| Numpad 2, 2 | Display 2 displays a 2 at the end |
| Numpad 3, 3 | Display 2 displays a 3 at the end |
| Numpad - | Sets arithmetic operation to subtract and add a “-” at the end of display 2 |
| Numpad 0, 0 | Display 2 displays a 0 at the end |
| Numpad ., . | IF (this is the first period)  Display 2 adds a period at the end  ELSE  No action |
| - | IF (the value in Display2 is positive)  Adds a “-“ at the beginning of the digits in display2  ELSE  Removes the “-“ at the beginning of the digits in display2 |
| Numpad + | Sets arithmetic operation to add and add a “+” at the end of display 2 |
| Backspace, Alt+B | It will remove the last digit in display2 |
| Esc | The same as “C” and it will reset everything |
| = | The same as “=” and it will get the result of the equation |
| All other keys | No action |