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| **Test Plan Page \_1\_** **of \_3\_**  **Program ID: \_Calculator01\_\_\_\_\_\_\_\_\_\_\_\_ Version Number: \_ 1\_\_**  **Tester: \_Ermatinger\_\_\_\_\_ Date Designed : 4/15/2019 \_ Date Conducted : \_4/16/2019\_**  **Results: Passed Open Items** |
| **Test ID: \_1 \_ Requirement Addressed: \_Verify Calculator Functions Properly\_\_**  **Objective:**  **Ensure that the default Windows “standard” calculator performs correct functions.** |
| **Test Cases:**  Value Entered: Result:  1) 2 + 2 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_    2) (-2) + (-2) =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_ -4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  3) 2 + (-2) =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_ 0\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  4) 2 – 2 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_0\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_    5) (-2) – (-2) =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_0\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  6) 2 – (-2) =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  7) 2 \* 2 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_    8) (-2) \* (-2) =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  9) 2 \* (-2) =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_-4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  10) 2 / 2 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_    11) (-2) / (-2) =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  12) 2 / (-2) =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_ -1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  13) 2 / 0 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_Cannot divide by zero\_  14) 0 / 2 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_0\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  15) 2 + 5% =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_2.1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Test Plan Page \_2\_** **of \_3\_**  **Program ID: \_Calculator01\_\_\_\_\_\_\_\_\_\_\_\_ Version Number: \_ 1\_\_**  **Tester: \_Ermatinger\_\_\_\_\_ Date Designed : 4/15/2019 \_ Date Conducted : \_4/16/2019\_**  **Results: Passed Open Items** |
| **Test Cases:**  Value Entered: Result:  16) 2 – 5% =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_ 1.9\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  17) 2 + 5% + (-5%) =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_ 1.995\_\_\_\_\_\_\_\_\_\_\_\_\_  18) 2 \* 5% =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_ 0.1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  19) 2 / 5% =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_ 40\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  20) 10 1/x =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_ 0.1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  21) (-10) 1/x =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_ -0.1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_    22) \_2 1/x + 2 1/x =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  23) \_2 1/x – 2 1/x =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_0\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  24) \_2 1/x + (-2)1/x =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_0\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  25) \_2 1/x \* 2 1/x =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_0.25\_\_\_\_\_\_\_\_\_\_\_\_\_\_    26) \_2 1/x / 2 1/x =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  27) \_√9\_=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_3\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  27) \_√(-9)\_=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_Invalid input\_\_\_\_\_\_\_  28) \_√9 + √9 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_6\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  29) \_√9 - √9 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_0\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  31) √9 \* √9 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_ 9\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  32) √9 / √9 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Test Plan Page \_3\_** **of \_3\_**  **Program ID: \_Calculator01\_\_\_\_\_\_\_\_\_\_\_\_ Version Number: \_ 1\_\_**  **Tester: \_Ermatinger\_\_\_\_\_ Date Designed : 4/15/2019 \_ Date Conducted : \_4/16/2019\_**  **Results: Passed Open Items** |
| **Test Cases:**  Value Entered: Result:  33) 3 x2 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_9\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  33) (-3) x2 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_9\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  34) 3 x2 + 3 x2 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_18\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  35) 3 x2 - 3 x2 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_0 \_\_\_\_\_\_\_\_\_\_\_\_\_\_  36) 3 x2 + (-3) x2 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_18\_\_\_\_\_\_\_\_\_\_\_\_ \_ \_  37) 3 x2 \* 3 x2 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_81\_\_\_\_\_\_\_\_\_\_\_ \_\_\_  38) 3 x2 / 3 x2 = \_\_ \_\_ 1\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_ |
| **Script:** |
| **Expected Results/Notes:**  **All of the cases should be tested to verify the various functions of the calculator.** |
| **Actual Results/Notes:**  **All of the cases were performed correctly.** |