Boolean Logic Calculator

Version <1.0>

Revision History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 2/May/2024 | 1.0 | Initial Test Cases | Mario Simental |
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# Purpose

This Test Case Document for the Boolean Logic Calculator defines test cases for the functionality of the calculator, variable assignment, and truth tables.

# Test Cases

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | Description | Input | Expected Result | Actual Result | Status |
| TC01 | Expression with Default Variables | T & F | False | False | Pass |
| TC02 | Expression with Defined Variables (A and B are True and False.) | A & B | False | False | Pass |
| TC03 | Expression with Default Variables (A and B are True and False.) | T & F | Invalid Character : T | Invalid Character : T | Pass |
| TC11 | Truth Table with Default Variables | N/A | N/A | N/A | Pass |
| TC12 | Truth Table with Defined Variables (A and B are True and False.) | N/A | N/A | N/A | Pass |
| TC21 | Expression with Combinations of Negation and Operators | !T&!F|T | True | True | Pass |
| TC22 | Expression with Whitespaces | T | F | True | True | Pass |
| TC23 | Double Pipe Or | T || F | Missing Operand | Missing Operand | Pass |
| TC24 | Expression with Default and Non-Defined Variables | T | F | A | B | Invalid Character : A | Invalid Character : A | Pass |
| TC31 | Mega Expression | (T@F)|(F|T|F)&(!T|!F)$T | True | True | Pass |
| TC32 | Mega Expression with Not Before a Grouping | (T@F)|!(F|T|F)&(!T|!F)$T | True | True | Pass |