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The Logic Calculator

Test Case

Version 1

Revision History

Date	Version	Description	Author
29/4/24	1	Completion of the test cases for the program	Kyler, Cyn, Malek, Jack, Jackson, Kaleb

Table of Contents

Test Case

1.   Purpose

This Test Case Specification document for the "The Logic Calculator" provides specific test cases used to evaluate the accuracy of the program. The table should showcase all of the test case identifiers, test items that were required and advanced functions implemented by the team. The input used and the correct output

2.   Test case identifier

3.   Test item

4.   Input specifications

5.   Output specifications

Identifier	Test Item	Input Specification	Output (Expected)	Actual Output
test case 1	XOR, OR	(T ǀ F) $ F	T	T
test case 2	NOT, AND	! (T & T)	F	F
test case 3	OR, NAND	(F @ T) ǀ (T @ F)	F	F
test case 4	AND, XOR	(T $ T) & F	F	F
test case 5	OR, NOT	! F ǀ ! T	T	T
test case 6	XOR, OR, AND, NAND, NOT	(((((T ǀ F) & F) ǀ (T & (T ǀ F))) @ (T @ T)) $ (! (T ǀ F)))	F	F
test case 7	OR, XOR, AND, NAND	((F $ ((T ǀ F) & (F @ (T ǀ F)))) ǀ (T $ (T & F)))	F	F
test case 8	OR, NOT, XOR, AND	(((! (T $ F)) & (T @ T)) ǀ ((F ǀ T) & (T $ T)))	T	T
test case 9	OR, NAND, NOT, AND, XOR	(((T @ T) $ (F @ T)) ǀ ((!T) & (T ǀ (!T)))) \	F	F
test case 10	AND, NAND, OR, NOT, XOR	((F @ T) $ (T ǀ (F & F))) & (T & (T @ (!T)))	T	T
test case 11	NOR	F % F	F	F
test case 12	NOR	F % T	F	F
test case 13	NOR	T % F	F	F
test case 14	NOR	T & T	T	T
test case 15	XNOR	F * F	F	F
test case 16	XNOR	F * T	F	F
test case 17	XNOR	T * F	T	T
test case 18	XNOR	T * T		

6.   Environmental needs

6.1.1   *Other*

Recommend user to use VScode to run the program with C/C++ Extension Pack, and C++ compiler installed into the computer.