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Task 1

Test Cases for Valid Inputs

Test Case ID	TC_CAL_01
Test Description	Addition of two positive integers
Preconditions	Calculator is powered on
Test Steps	1. Launch the calculator application 2. Enter (12) 3. Press (+) 4. Enter (8) 5. Press (=)
Expected Results	Output should be (20)

Test Case ID	TC_CAL_02
Test Description	Subtraction involving negative number
Preconditions	Calculator program is running
Test Steps	1. Launch Calculator 2. Enter (-5) 3. Click (-) 4. Enter (10) 5. Click (=)
Expected Results	Display shows (-15)

Test Case ID	TC_CAL_03
Test Description	Multiplication with decimal numbers
Preconditions	Calculator Program is running
Test Steps	1. Launch Calculator 2. Enter (3.5) 3. Click (X) 4. Enter (2) 5. Click (=)
Expected Results	Display shows (7.0)

Test Case ID	TC_CAL_04
Test Description	Division Resulting in Decimal
Preconditions	Calculator Program is running
Test Steps	1. Launch Calculator 2. Enter (10) 3. Click (÷) 4. Enter 4 5. Click (=)
Expected Results	Display Shows (2.5)

Test Case ID	TC_CAL_05
Test Description	Order of Operations (BODMAS)
Preconditions	Calculator Supports expression evaluation
Test Steps	1. Enter (2+3*4) 2. Click (=)
Expected Results	Display Shows (14)

Test Cases for Invalid Inputs

Test Case ID	TC_CAL_06
Test Description	Division by Zero
Preconditions	Calculator Program is running
Test Steps	1. Launch Calculator 2. Enter (8) 3. Click (÷) 4. Enter (0) 5. Click (=)
Expected Results	Error displayed (e.g," Cannot divide by zero)

Test Case ID	TC_CAL_07
Test Description	Non-numeric input
Preconditions	Calculator Program is running
Test Steps	1. Launch Calculator 2. Try entering abc or other alphabetic inputs.
Expected Results	Error message / No action taken

Test Case ID	TC_CAL_08
Test Description	Multiple operators without operand
Preconditions	Calculator Program is running
Test Steps	1. Enter (5 + - *) 2. Click (=)
Expected Results	Display shows no error / Prompt for valid input