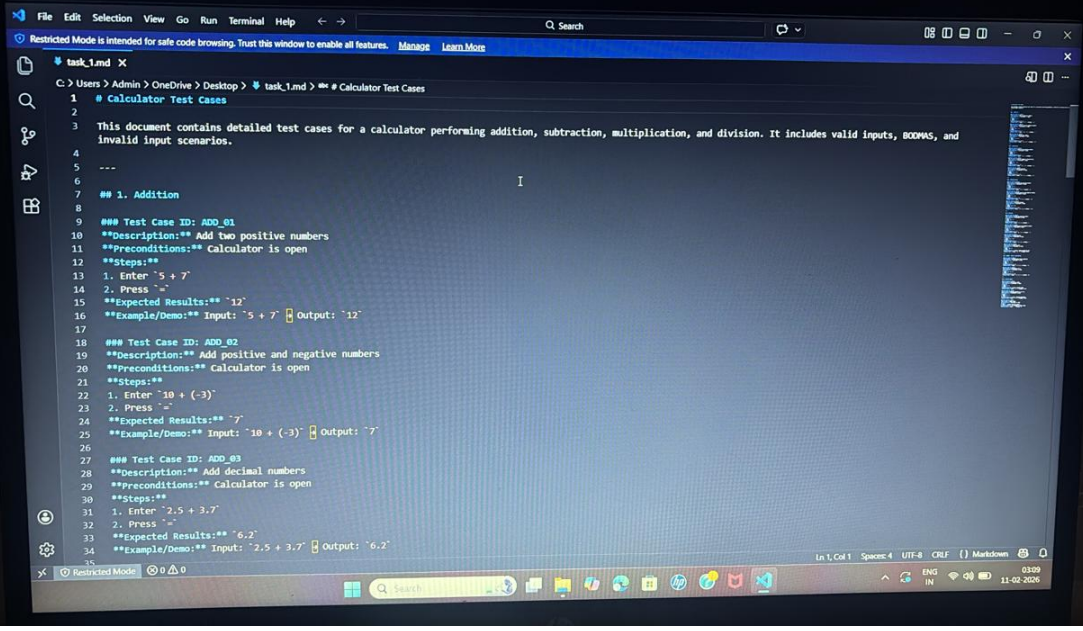
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task_1.md
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Calculator Test Cases
This document contains detailed test cases for a calculator performing addition, subtraction, multiplication, and division. It includes valid inputs, BODMAS, and invalid input scenarios.
---
1. Addition
Test Case ID: ADD_01
Description: Add two positive numbers
Preconditions: Calculator is open
Steps:
1. Enter `5 + 7`
2. Press `=`
Expected Results: `12`
Example/Demo: Input: `5 + 7` → Output: `12`
Test Case ID: ADD_02
Description: Add positive and negative numbers
Preconditions: Calculator is open
Steps:
1. Enter `10 + (-3)`
2. Press `=`
Expected Results: `7`
Example/Demo: Input: `10 + (-3)` → Output: `7`
Test Case ID: ADD_03
Description: Add decimal numbers
Preconditions: Calculator is open
Steps:
1. Enter `2.5 + 3.7`
2. Press `=`
Expected Results: `6.2`
Example/Demo: Input: `2.5 + 3.7` → Output: `6.2`
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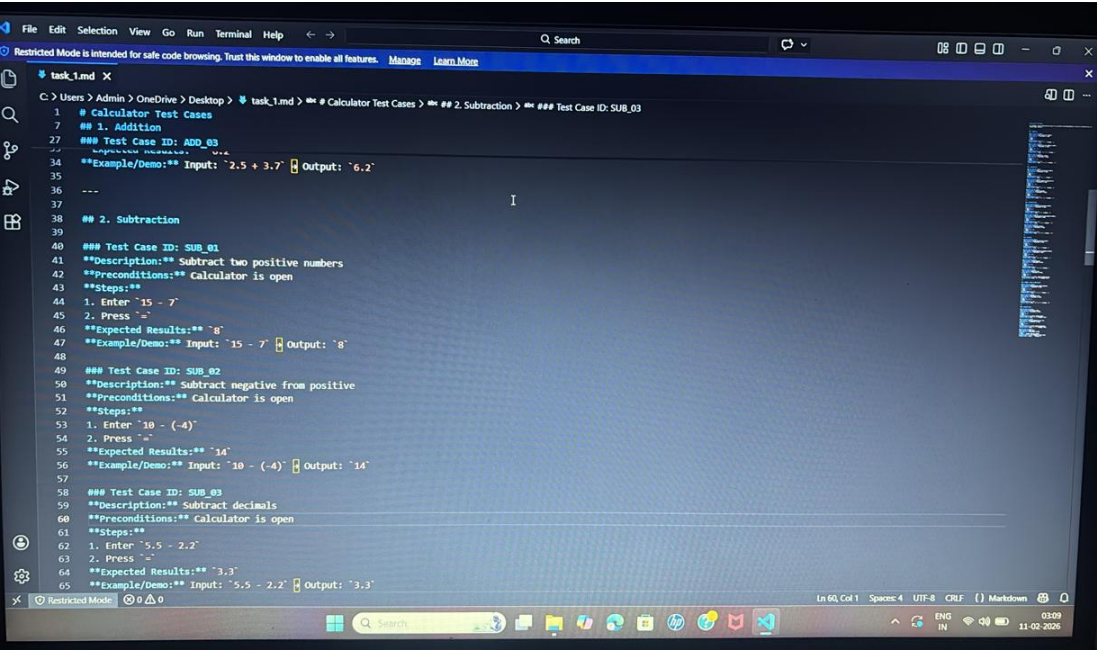
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task_1.md
C: > Users > Admin > OneDrive > Desktop > task_1.md > # Calculator Test Cases > ## 2. Subtraction > ### Test Case ID: SUB_03
Calculator Test Cases
1. Addition
Test Case ID: ADD_03
Example/Demo: Input: `2.5 + 3.7` & Output: `6.2`
---
2. Subtraction
Test Case ID: SUB_01
Description: Subtract two positive numbers
Preconditions: Calculator is open
Steps:
1. Enter `15 - 7`
2. Press `=`
Expected Results: `8`
Example/Demo: Input: `15 - 7` & Output: `8`
Test Case ID: SUB_02
Description: Subtract negative from positive
Preconditions: Calculator is open
Steps:
1. Enter `10 - (-4)`
2. Press `=`
Expected Results: `14`
Example/Demo: Input: `10 - (-4)` & Output: `14`
Test Case ID: SUB_03
Description: Subtract decimals
Preconditions: Calculator is open
Steps:
1. Enter `5.5 - 2.2`
2. Press `=`
Expected Results: `3.3`
Example/Demo: Input: `5.5 - 2.2` & Output: `3.3`
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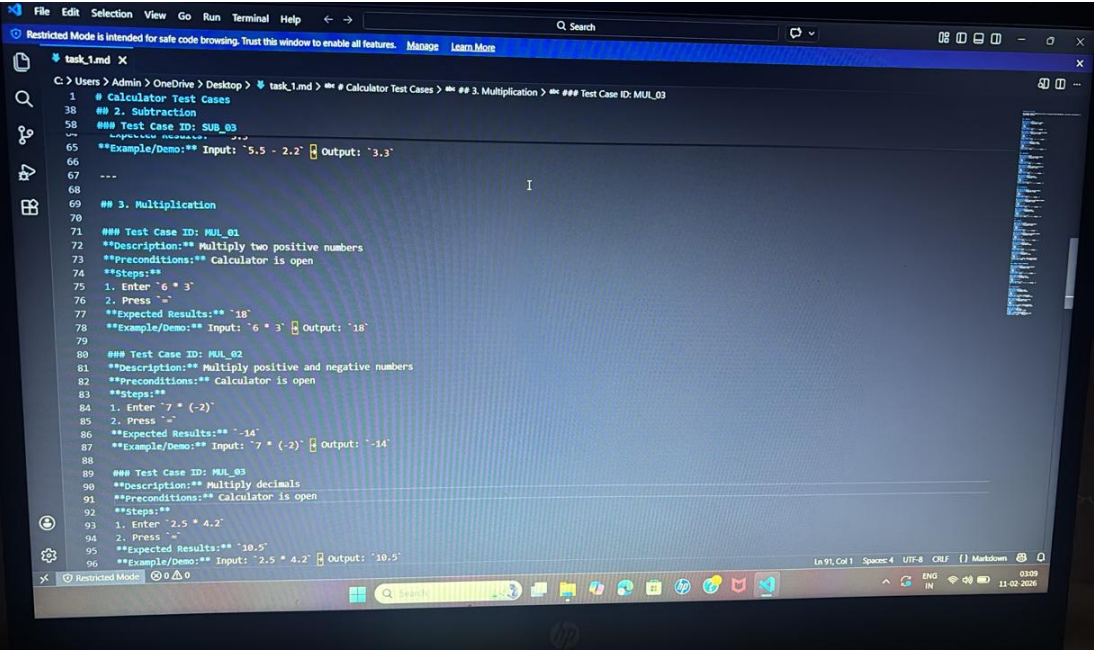
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task_1.md
C: > Users > Admin > OneDrive > Desktop > task_1.md > # Calculator Test Cases > ## 3. Multiplication > ### Test Case ID: MUL_03
1 # Calculator Test Cases
38 ## 2. Subtraction
58 ### Test Case ID: SUB_03
65 **Example/Demo:** Input: `5.5 - 2.2` → Output: `3.3`
66
67 ---
68
69 ## 3. Multiplication
70
71 ### Test Case ID: MUL_01
72 **Description:** Multiply two positive numbers
73 **Preconditions:** Calculator is open
74 **Steps:**
75 1. Enter `6 * 3`
76 2. Press `=`
77 **Expected Results:** `18`
78 **Example/Demo:** Input: `6 * 3` → Output: `18`
79
80 ### Test Case ID: MUL_02
81 **Description:** Multiply positive and negative numbers
82 **Preconditions:** Calculator is open
83 **Steps:**
84 1. Enter `7 * (-2)`
85 2. Press `=`
86 **Expected Results:** `-14`
87 **Example/Demo:** Input: `7 * (-2)` → Output: `-14`
88
89 ### Test Case ID: MUL_03
90 **Description:** Multiply decimals
91 **Preconditions:** Calculator is open
92 **Steps:**
93 1. Enter `2.5 * 4.2`
94 2. Press `=`
95 **Expected Results:** `10.5`
96 **Example/Demo:** Input: `2.5 * 4.2` → Output: `10.5`
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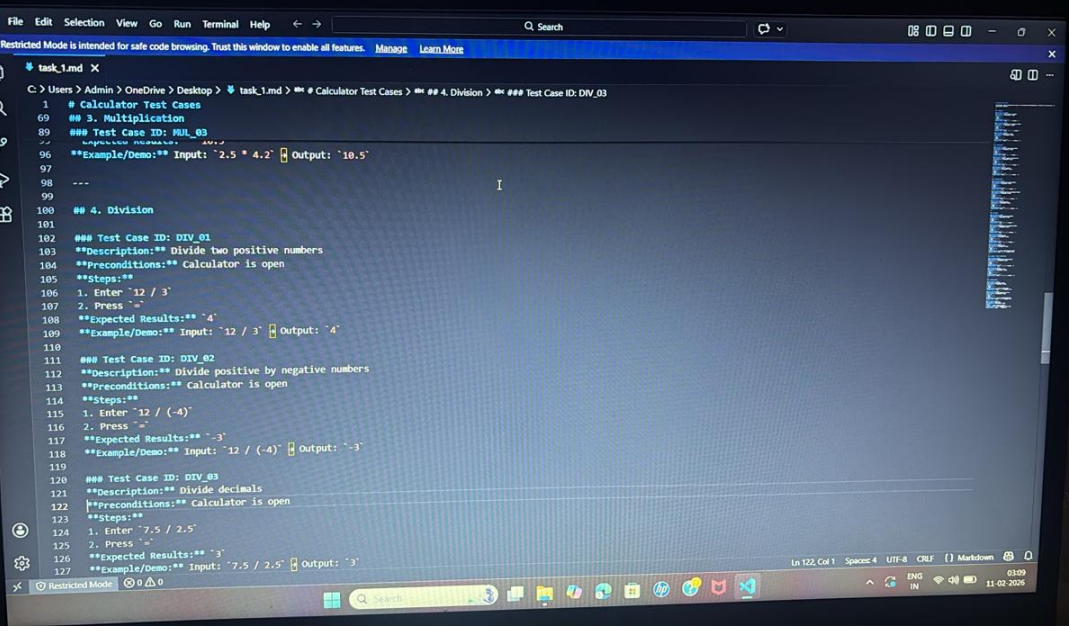
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C: > Users > Admin > OneDrive > Desktop > task_1.md > # Calculator Test Cases > ## 4. Division > ### Test Case ID: DIV_03
Calculator Test Cases
3. Multiplication
Test Case ID: MUL_03
Example/Demo: Input: `2.5 * 4.2` & Output: `10.5`
---
4. Division
Test Case ID: DIV_01
Description: Divide two positive numbers
Preconditions: Calculator is open
Steps:
1. Enter `12 / 3`
2. Press `=`
Expected Results: `4`
Example/Demo: Input: `12 / 3` & Output: `4`
Test Case ID: DIV_02
Description: Divide positive by negative numbers
Preconditions: Calculator is open
Steps:
1. Enter `12 / (-4)`
2. Press `=`
Expected Results: `-3`
Example/Demo: Input: `12 / (-4)` & Output: `-3`
Test Case ID: DIV_03
Description: Divide decimals
Preconditions: Calculator is open
Steps:
1. Enter `7.5 / 2.5`
2. Press `=`
Expected Results: `3`
Example/Demo: Input: `7.5 / 2.5` & Output: `3`
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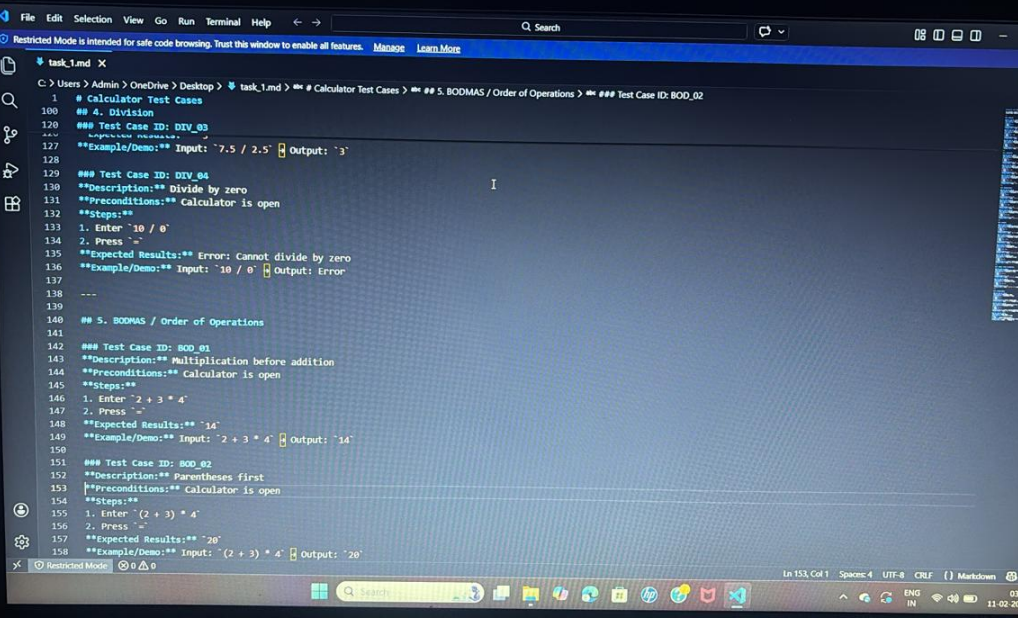
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task_1.md
C > Users > Admin > OneDrive > Desktop > task_1.md > # Calculator Test Cases > ## 5. BODMAS / Order of Operations > ### Test Case ID: BOD_02
Calculator Test Cases
4. Division
Test Case ID: DIV_03
Example/Demo: Input: `7.5 / 2.5` & Output: `3`
Test Case ID: DIV_04
Description: Divide by zero
Preconditions: Calculator is open
Steps:
1. Enter `10 / 0`
2. Press `=`
Expected Results: Error: Cannot divide by zero
Example/Demo: Input: `10 / 0` & Output: Error
---
5. BODMAS / Order of Operations
Test Case ID: BOD_01
Description: Multiplication before addition
Preconditions: Calculator is open
Steps:
1. Enter `2 + 3 * 4`
2. Press `=`
Expected Results: `14`
Example/Demo: Input: `2 + 3 * 4` & Output: `14`
Test Case ID: BOD_02
Description: Parentheses first
Preconditions: Calculator is open
Steps:
1. Enter `(2 + 3) * 4`
2. Press `=`
Expected Results: `20`
Example/Demo: Input: `(2 + 3) * 4` & Output: `20`
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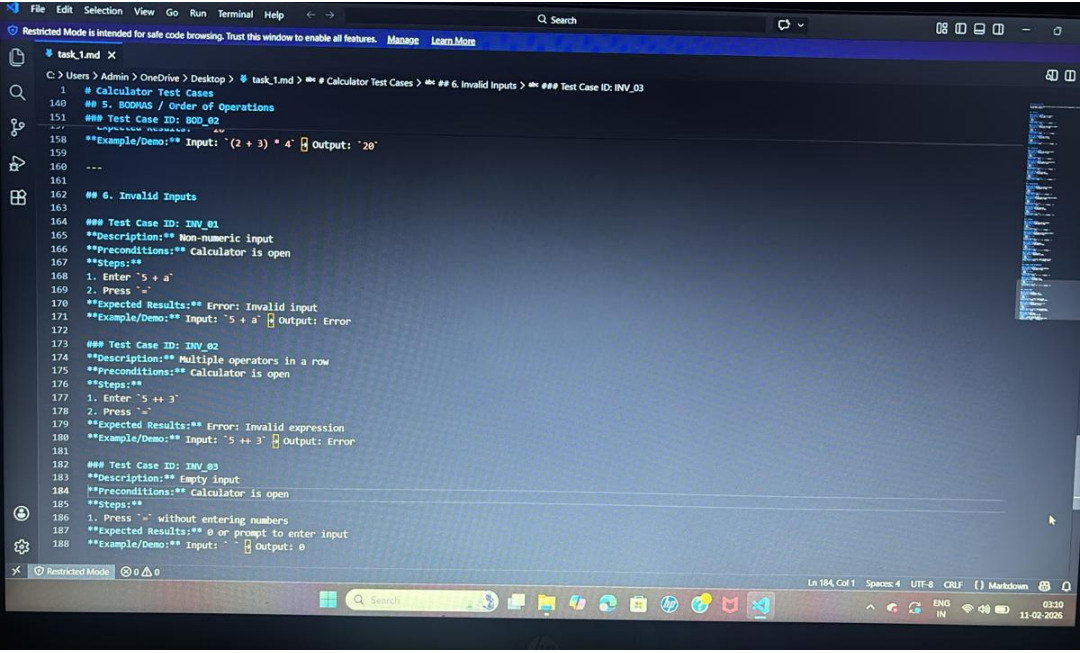
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task_1.md
C: > Users > Admin > OneDrive > Desktop > task_1.md > # Calculator Test Cases > ## 6. Invalid Inputs > ### Test Case ID: INV_03
Calculator Test Cases
5. BODMAS / Order of Operations
Test Case ID: BOD_02
Example/Demo: Input: `(2 + 3) * 4` Output: `20`
---
6. Invalid Inputs
Test Case ID: INV_01
Description: Non-numeric input
Preconditions: Calculator is open
Steps:
1. Enter `5 + a`
2. Press `=`
Expected Results: Error: Invalid input
Example/Demo: Input: `5 + a` Output: Error
Test Case ID: INV_02
Description: Multiple operators in a row
Preconditions: Calculator is open
Steps:
1. Enter `5 ++ 3`
2. Press `=`
Expected Results: Error: Invalid expression
Example/Demo: Input: `5 ++ 3` Output: Error
Test Case ID: INV_03
Description: Empty input
Preconditions: Calculator is open
Steps:
1. Press `=` without entering numbers
Expected Results: 0 or prompt to enter input
Example/Demo: Input: ` ` Output: 0
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Calculator Test Cases

This document contains detailed test cases for a calculator performing addition, subtraction, multiplication, and division. It includes valid inputs, BODMAS, and invalid input scenarios.

1. Addition

Test Case ID: ADD_01

Description: Add two positive numbers
Preconditions: Calculator is open
Steps:

1. Enter `5 + 7`
2. Press `=`
   Expected Result: `12`
   Example/Demo: Input: `5 + 7` → Output: `12`

Test Case ID: ADD_02

Description: Add positive and negative numbers
Preconditions: Calculator is open
Steps:

1. Enter `10 + (-3)`
2. Press `=`
   Expected Result: `7`
   Example/Demo: Input: `10 + (-3)` → Output: `7`

Test Case ID: ADD_03

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Test Case ID: ADD_03

Description: Add decimal numbers
Preconditions: Calculator is open
Steps:

1. Enter `2.5 + 3.7`
2. Press `=`

Expected Results: `6.2`
Example/Demo: Input: `2.5 + 3.7` → Output: `6.2`

---

2. Subtraction

Test Case ID: SUB_01

Description: Subtract two positive numbers
Preconditions: Calculator is open
Steps:

1. Enter `15 - 7`
2. Press `=`

Expected Results: `8`
Example/Demo: Input: `15 - 7` → Output: `8`

Test Case ID: SUB_02

Description: Subtract negative from positive
Preconditions: Calculator is open
Steps:

1. Enter `10 - (-4)`

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Steps:

1. Enter `10 - (-4)`
2. Press `=`

Expected Results: `14`

Example/Demo: Input: `10 - (-4)` → Output: `14`

Test Case ID: SUB_03

Description: Subtract decimals
Preconditions: Calculator is open
Steps:

1. Enter `5.5 - 2.2`
2. Press `=`

Expected Results: `3.3`

Example/Demo: Input: `5.5 - 2.2` → Output: `3.3`

---

3. Multiplication

Test Case ID: MUL_01

Description: Multiply two positive numbers
Preconditions: Calculator is open
Steps:

1. Enter `6 * 3`
2. Press `=`

Expected Results: `18`

Example/Demo: Input: `6 * 3` → Output: `18`

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Test Case ID: MUL_02

Description: Multiply positive and negative numbers
Preconditions: Calculator is open
Steps:

1. Enter `7 * (-2)`
2. Press `=`
   Expected Result: `-14`
   Example/Demo: Input: `7 * (-2)` → Output: `-14`

Test Case ID: MUL_03

Description: Multiply decimals
Preconditions: Calculator is open
Steps:

1. Enter `2.5 * 4.2`
2. Press `=`
   Expected Result: `10.5`
   Example/Demo: Input: `2.5 * 4.2` → Output: `10.5`

---

4. Division

Test Case ID: DIV_01

Description: Divide two positive numbers
Preconditions: Calculator is open
Steps:

1. Enter `12 / 3`

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1. Enter `12 / 3`
2. Press `=`
   Expected Results: `4`
   Example/Demo: Input: `12 / 3` → Output: `4`

Test Case ID: DIV_02

Description: Divide positive by negative numbers
Preconditions: Calculator is open
Steps:

1. Enter `12 / (-4)`
2. Press `=`
   Expected Results: `-3`
   Example/Demo: Input: `12 / (-4)` → Output: `-3`

Test Case ID: DIV_03

Description: Divide decimals
Preconditions: Calculator is open
Steps:

1. Enter `7.5 / 2.5`
2. Press `=`
   Expected Results: `3`
   Example/Demo: Input: `7.5 / 2.5` → Output: `3`

Test Case ID: DIV_04

Description: Divide by zero
Preconditions: Calculator is open
Steps:

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Preconditions: Calculator is open
Steps:

1. Enter `10 / 0`
2. Press `=`

Expected Results: Error: Cannot divide by zero
Example/Demo: Input: `10 / 0` → Output: Error

---

5. BODMAS / Order of Operations

Test Case ID: BOD_01

Description: Multiplication before addition
Preconditions: Calculator is open
Steps:

1. Enter `2 + 3 * 4`
2. Press `=`

Expected Results: `14`
Example/Demo: Input: `2 + 3 * 4` → Output: `14`

Test Case ID: BOD_02

Description: Parentheses first
Preconditions: Calculator is open
Steps:

1. Enter `(2 + 3) * 4`
2. Press `=`

Expected Results: `20`
Example/Demo: Input: `(2 + 3) * 4` → Output: `20`

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6. Invalid Inputs

Test Case ID: INV_01

Description: Non-numeric input
Preconditions: Calculator is open
Steps:

1. Enter `5 + a`
2. Press `=`
   Expected Results: Error: Invalid input
   Example/Demo: Input: `5 + a` → Output: Error

Test Case ID: INV_02

Description: Multiple operators in a row
Preconditions: Calculator is open
Steps:

1. Enter `5 ++ 3`
2. Press `=`
   Expected Results: Error: Invalid expression
   Example/Demo: Input: `5 ++ 3` → Output: Error

Test Case ID: INV_03

Description: Empty input
Preconditions: Calculator is open
Steps:

1. Press `=` without entering numbers
   Expected Results: 0 or prompt to enter input

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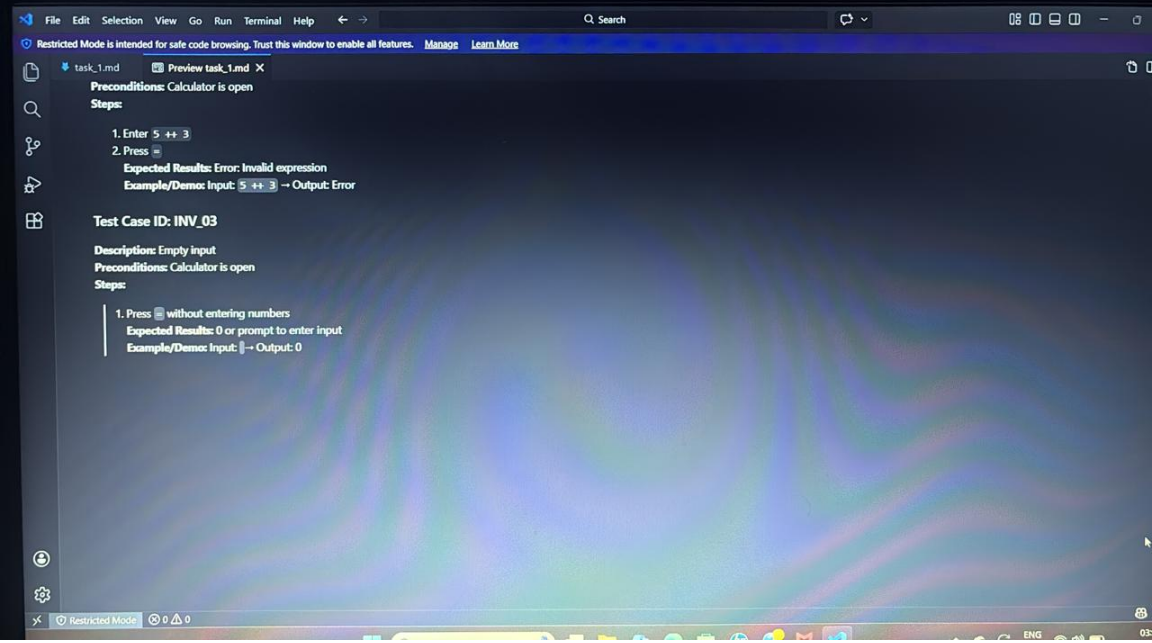
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task_1.md
Preview task_1.md
Preconditions: Calculator is open
Steps:
1. Enter 5 ++ 3
2. Press =
Expected Results: Error: Invalid expression
Example/Demo: Input: 5 ++ 3 → Output: Error
Test Case ID: INV_03
Description: Empty input
Preconditions: Calculator is open
Steps:
1. Press = without entering numbers
Expected Results: 0 or prompt to enter input
Example/Demo: Input: → Output: 0
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