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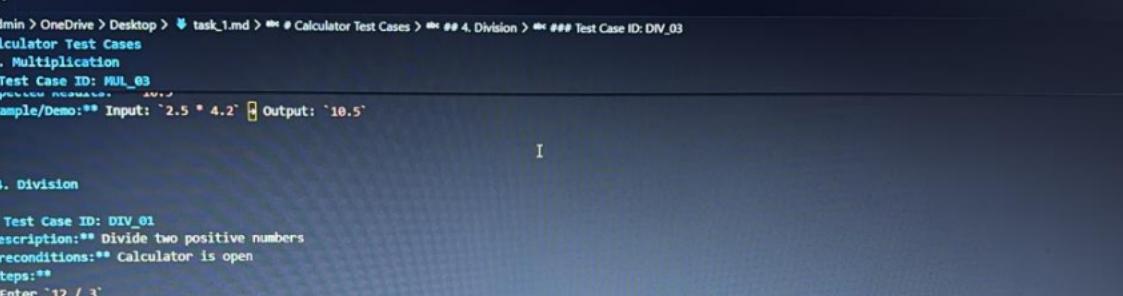
task_1.md

```
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
59  Description: Calculator is open
60  Preconditions: Calculator is open
61  Steps:
62  1. Enter '5.5 - 2.2'
63  2. Press '='
64  Expected Results: '3.3'
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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task_1.md
C > Users > Admin > OneDrive > Desktop > task_1.md > *# Calculator Test Cases > *# 4. Division > *# Test Case ID: DIV_03
  1  # Calculator Test Cases
  2  ## 3. Multiplication
  3  ### Test Case ID: MUL_03
  4  #### Description: Divide two positive numbers
  5  #### Preconditions: Calculator is open
  6  #### Steps:
  7  1. Enter '2.5 * 4.2'
  8  2. Press '='
  9  #### Expected Results: 10.5
 10  #### Example/Demo: Input: '2.5 * 4.2' Output: '10.5'
 11  ---
 12  ## 4. Division
 13  ### Test Case ID: DIV_01
 14  #### Description: Divide two positive numbers
 15  #### Preconditions: Calculator is open
 16  #### Steps:
 17  1. Enter '12 / 3'
 18  2. Press '='
 19  #### Expected Results: 4
 20  #### Example/Demo: Input: '12 / 3' Output: '4'
 21  ---
 22  ### Test Case ID: DIV_02
 23  #### Description: Divide positive by negative numbers
 24  #### Preconditions: Calculator is open
 25  #### Steps:
 26  1. Enter '12 / (-4)'
 27  2. Press '='
 28  #### Expected Results: -3
 29  #### Example/Demo: Input: '12 / (-4)' Output: '-3'
 30  ---
 31  ### Test Case ID: DIV_03
 32  #### Description: Divide decimals
 33  #### Preconditions: Calculator is open
 34  #### Steps:
 35  1. Enter '7.5 / 2.5'
 36  2. Press '='
 37  #### Expected Results: 3
 38  #### Example/Demo: Input: '7.5 / 2.5' Output: '3'
```

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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
1  # Calculator Test Cases
100 ## 4. Division
120 ### Test Case ID: DIV_03
121 ## ## Description: Divide by zero
122 ## ## Preconditions: Calculator is open
123 ## ## Steps:
124 1. Enter "10 / 0"
125 2. Press "="
126 ## ## Expected Results: Error: Cannot divide by zero
127 ## ## Example/Demo: Input: "10 / 0" Output: Error
128
129 ## ## Test Case ID: DIV_04
130 ## ## Description: Divide by zero
131 ## ## Preconditions: Calculator is open
132 ## ## Steps:
133 1. Enter "10 / 0"
134 2. Press "="
135 ## ## Expected Results: Error: Cannot divide by zero
136 ## ## Example/Demo: Input: "10 / 0" Output: Error
137
138
139
140 ## 5. BODMAS / Order of Operations
141
142 ### Test Case ID: BOD_01
143 ## ## Description: Multiplication before addition
144 ## ## Preconditions: Calculator is open
145 ## ## Steps:
146 1. Enter "2 + 3 * 4"
147 2. Press "="
148 ## ## Expected Results: "14"
149 ## ## Example/Demo: Input: "2 + 3 * 4" Output: "14"
150
151 ## ## Test Case ID: BOD_02
152 ## ## Description: Parentheses first
153 ## ## Preconditions: Calculator is open
154 ## ## Steps:
155 1. Enter "(2 + 3) * 4"
156 2. Press "="
157 ## ## Expected Results: "20"
158 ## ## Example/Demo: Input: "(2 + 3) * 4" Output: "20"
```

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C: > Users > Admin > OneDrive > Desktop > task_1.md > # Calculator Test Cases > ## 6. Invalid Inputs > ## Test Case ID: INV_03

```
1 # Calculator Test Cases
140 ## 5. BODMAS / Order of Operations
151 ### Test Case ID: BOD_02
152 ## Description: BODMAS Test Case
153 ## Preconditions: Calculator is open
154 ## Steps:
155 1. Enter "5 + 3" into the calculator
156 2. Press "="
157 ## Expected Results: Output: 8
158 ## Example/Demo: Input: "5 + 3" Output: 8
159
160 ...
161
162 ## 6. Invalid Inputs
163
164 ### Test Case ID: INV_01
165 ## Description: Non-numeric input
166 ## Preconditions: Calculator is open
167 ## Steps:
168 1. Enter "5 + a"
169 2. Press "="
170 ## Expected Results: Error: Invalid input
171 ## Example/Demo: Input: "5 + a" Output: Error
172
173 ### Test Case ID: INV_02
174 ## Description: Multiple operators in a row
175 ## Preconditions: Calculator is open
176 ## Steps:
177 1. Enter "5 ++ 3"
178 2. Press "="
179 ## Expected Results: Error: Invalid expression
180 ## Example/Demo: Input: "5 ++ 3" Output: Error
181
182 ### Test Case ID: INV_03
183 ## Description: Empty input
184 ## Preconditions: Calculator is open
185 ## Steps:
186 1. Press "=" without entering numbers
187 ## Expected Results: 0 or prompt to enter input
188 ## 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:

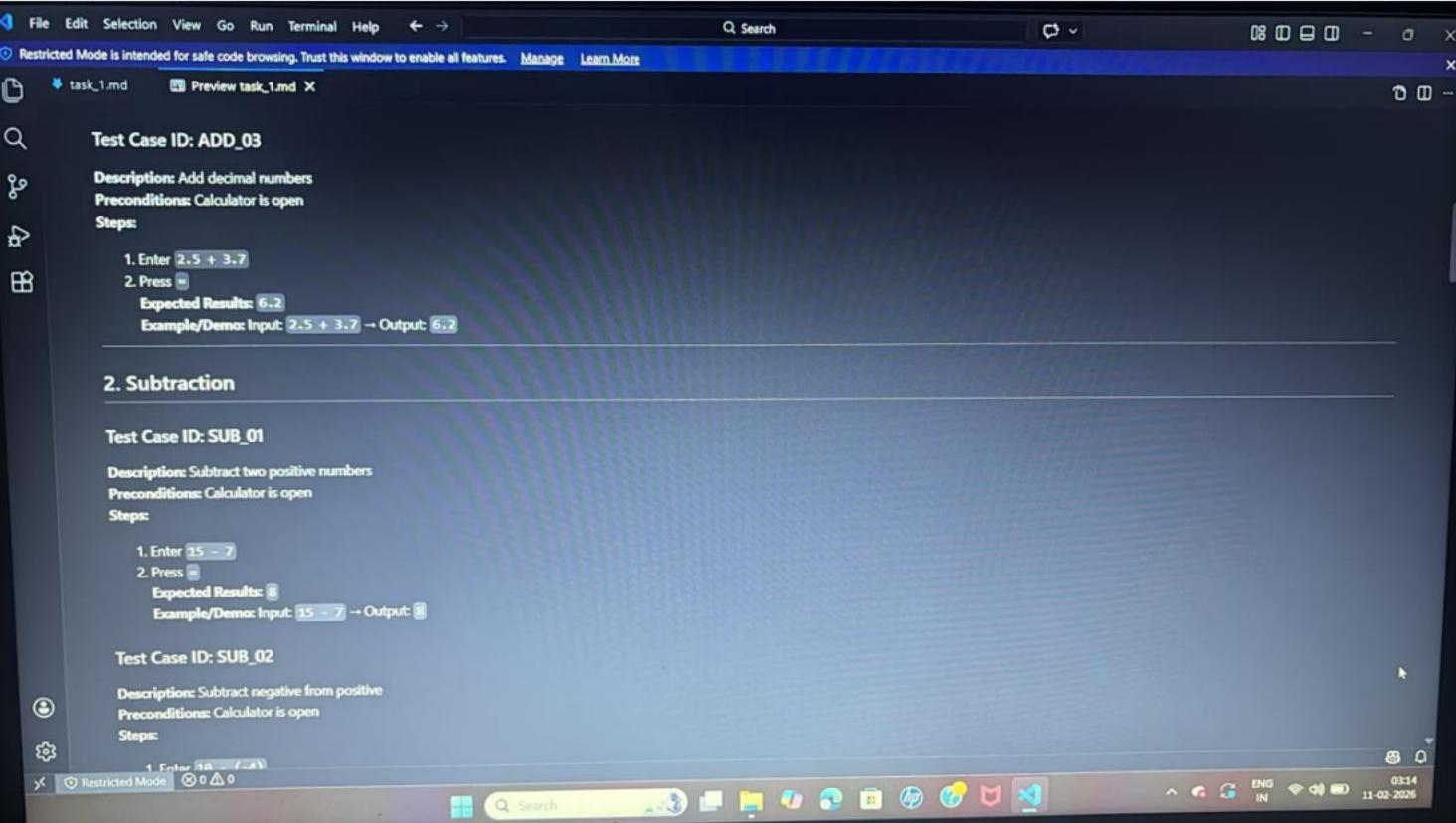
1. Enter $10 + (-3)$
2. Press $=$

Expected Result: 7

Example/Demo: Input: $10 + (-3)$ → Output: 7

Test Case ID: ADD_03

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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 Results: -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 Results: 10.5
Example/Demo: Input: $2.5 * 4.2$ → Output: 10.5

4. Division

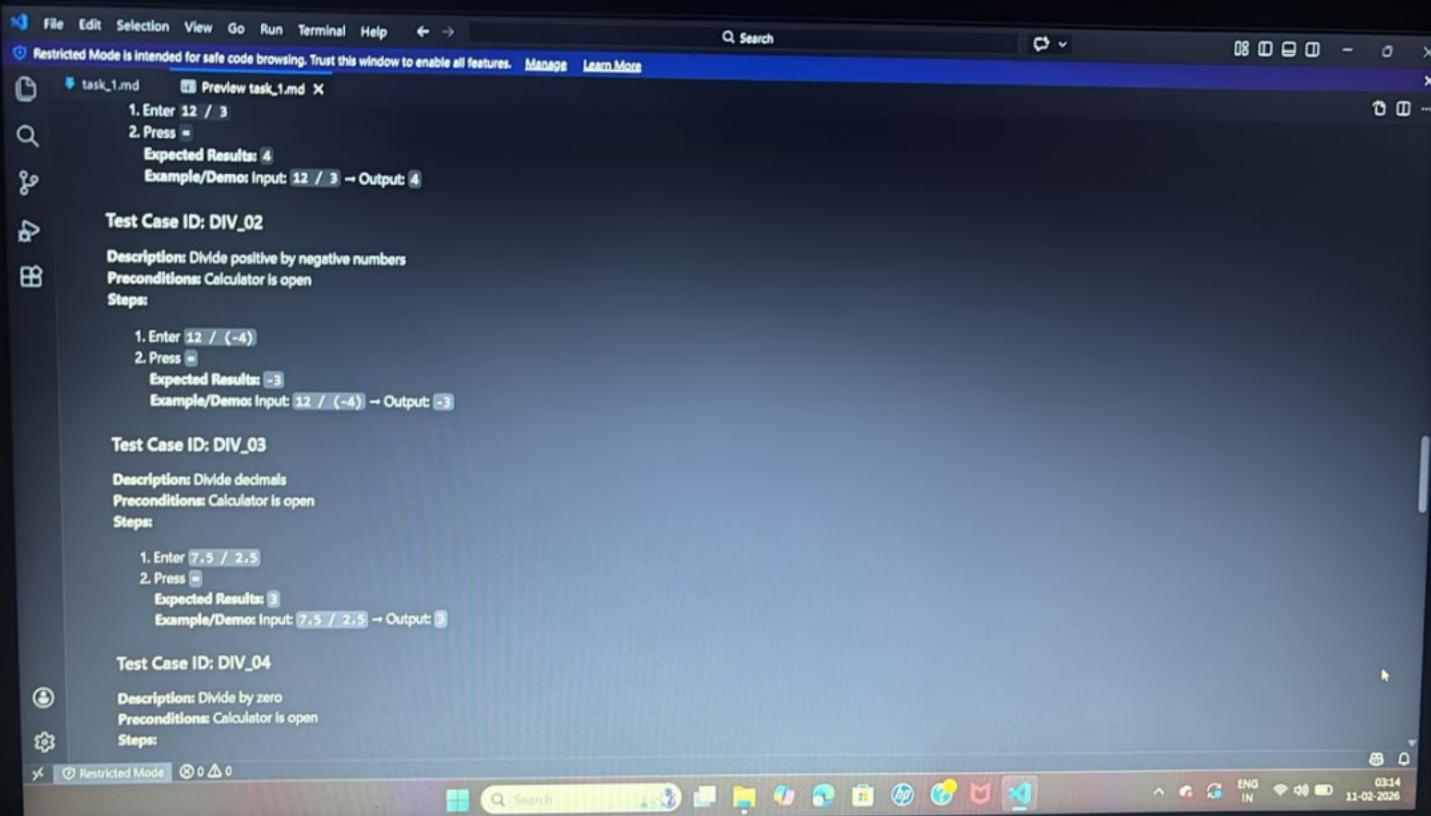
Test Case ID: DIV_01

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

1. Enter $12 / 3$

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Preconditions: Calculator is open

Steps:

1. Enter $10 / 0$
2. Press \square

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 \square

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 \square

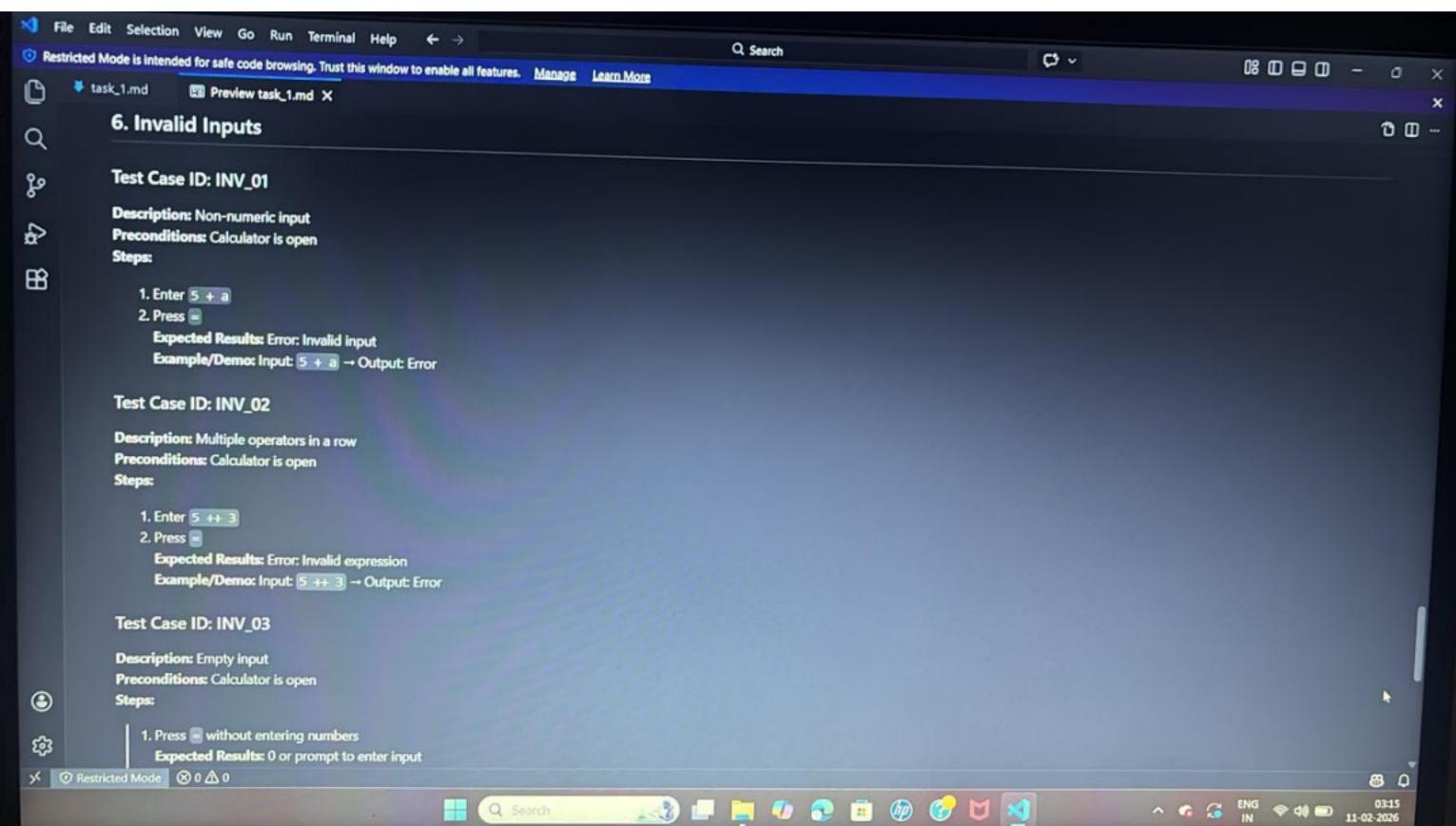
Expected Results: 20

Example/Demo: Input: $(2 + 3) * 4$ → Output: 20

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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