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| 1. Unit Test Plan Scope (In Scope – Out of Scope) | |
| **In Scope** | **Out of Scope** |
| In Scope *List features/functions that are tested.*  def add(x,y)  def subtract(x,y)  def multiply(x,y)  def divide(x,y) | Out of Scope *List features/functions that are not tested.*  def calculator() |

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| 2. Unit Test Cases | | | |
| **ID** | **Test Cases** | **Input Value** | **Expected Output** |
| 2.1 | Test addition of two positive numbers | add(5, 3) | 8 |
| 2.2 | Test addition of a positive and negative number | add(5, -3) | 2 |
| 2.3 | Test subtraction with two positive numbers | subtract(8, 5) | 3 |
| 2.4 | Test subtraction resulting in a negative number | subtract(5, 8) | -3 |
| 2.5 | Test multiplication of two positive numbers | multiply(4, 3) | 12 |
| 2.6 | Test multiplication with a negative number | multiply(-4, 3) | -12 |
| 2.7 | Test division with two positive numbers | divide(8, 2) | 4.0 |
| 2.8 | Test division by zero | divide(8, 0) | "Error: Division by zero is undefined." |
| 2.9 | Test division of two negative numbers | divide(-8, -2) | 4.0 |
| 2.10 | Test addition with zero | add(0, 5) | 5 |
| 2.11 | Test subtraction with zero | subtract(0, 5) | -5 |

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| 3. Unit Test Results | | |  |  |  |
| **ID** | **Test Cases** | **Pass/Fail** | **Actual Output** | **Tested By** | **Date Tested** |
| 2.1 | Test addition of two positives | Pass | 8 | Jonathan S. Marbun | 13/11/2024 |
| 2.2 | Addition with positive, negative | Pass | 2 | Jonathan S. Marbun | 13/11/2024 |
| 2.3 | Subtract with positives | Pass | 3 | Jonathan S. Marbun | 13/11/2024 |
| 2.4 | Subtraction resulting in negative | Pass | -3 | Jonathan S. Marbun | 13/11/2024 |
| 2.5 | Multiply positives | Pass | 12 | Jonathan S. Marbun | 13/11/2024 |
| 2.6 | Multiplication with negative | Pass | -12 | Jonathan S. Marbun | 13/11/2024 |
| 2.7 | Division with positives | Pass | 4.0 | Jonathan S. Marbun | 13/11/2024 |
| 2.8 | Division by zero | Pass | "Error: Division by zero is undefined." | Jonathan S. Marbun | 13/11/2024 |
| 2.9 | Division with negatives | Pass | 4.0 | Jonathan S. Marbun | 13/11/2024 |
| 2.10 | Addition with zero | Pass | 5 | Jonathan S. Marbun | 13/11/2024 |
| 2.11 | Subtraction with zero | Pass | -5 | Jonathan S. Marbun | 13/11/2024 |

# 4. Addendums & Appendices

*Include any additional documents.*