**Test case ID**: A unique identifier for the test case.

**Test case description**: A brief description of the test case, including the feature being tested.

**Test data**: The input data that will be used to execute the test case.

**Expected results**: The expected output of the test case.

**Actual results**: The actual output of the test case.

**Pass/fail status**: Whether the test case passed or failed

Xavier Ruyle

1. **Test case ID**: TC01

**Test case description**: Verification of basic addition calculations

**Test data**: 20+21

**Expected results**: 41

**Actual results**: 41

**Pass/fail status**: Pass

1. **Test case ID**: TC02

**Test case description**: Verification of basic subtraction calculations

**Test data**: 40-14

**Expected results**: 26

**Actual results**: 26

**Pass/fail status**: Pass

1. **Test case ID**: TC03

**Test case description**: Verification of basic multiplication calculations

**Test data**: 3\*10

**Expected results**: 30

**Actual results**: 30

**Pass/fail status**: Pass

1. **Test case ID**: TC04

**Test case description**: Verification of basic division calculations

**Test data**: 8/2

**Expected results**: 4

**Actual results**: 4

**Pass/fail status**: Pass

1. **Test case ID**: TC05

**Test case description**: Verification of mixed operations calculations

**Test data**: 8/2 \* 3

**Expected results**: 12

**Actual results**: 12

**Pass/fail status**: Pass

1. **Test case ID**: TC06

**Test case description**: Verification of parentheses calculations

**Test data**: 12/(2 \* 3)

**Expected results**: 2

**Actual results**: 2

**Pass/fail status**: Pass

1. **Test case ID**: TC07

**Test case description**: Verification of unary operations

**Test data**: 10-(-5)

**Expected results**: 15

**Actual results**: 15

**Pass/fail status**: Pass

1. **Test case ID**: TC08

**Test case description**: Verification of floating point number calculations

**Test data**: 10.2 + 3.5

**Expected results**: 13.7

**Actual results**: 13.7

**Pass/fail status**: Pass

1. **Test case ID**: TC09

**Test case description**: Verification of complex mixed operations calculations

**Test data**: 5\*(3+7)-7/2

**Expected results**: 13.7

**Actual results**: 13.7

**Pass/fail status**: Pass

1. **Test case ID**: TC10

**Test case description**: Verification of invalid character errors

**Test data**: 10 $ 3

**Expected results**: Invalid Character Error

**Actual results**: terminate called after throwing an instance of 'std::runtime\_error'

what(): Tokenization error: Invalid character

**Pass/fail status**: Pass