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**Test Case #1**

1. **Rationale**

To test for how the program handles the issue of division by zero.

1. **Script**

A:100

B:A/0

1. **Expected Output**

Error at line 2.

"B:A/0"

Invalid operation: Division by zero.

1. **Actual Ouptut:**

Error at line 2.

"B:A/0"

Invalid operation: Division by zero.

1. **Result**

**PASSED**

**Test Case #2**

1. **Rationale**

To see how the program handles invalid operator symbols.

1. **Script**

A:100+20

display A

B:20+50

display B

B: A&10

1. **Expected Ouptut**

A is 120

B is 70

Error at line 5.

"B: A&10"

Invalid expression.

1. **Actual Output**

A is 120

B is 70

Error at line 5.

"B: A&10"

Invalid expression.

1. **Result**

PASSED

**Test Case #3**

1. **Rationale**

To see how the program will handle a case wherein the lexeme“display” is misspelt.

1. **Script**

A:100

displa A

B:20+50

display B

1. **Expected Output**

Error at line 2.

"displa A"

Invalid lexeme.

Press any key to continue...

1. **Actual Output**

Error at line 2.

"displa A"

Invalid lexeme.

Press any key to continue...

1. **Result**

PASSED

**Test Case #4**

1. **Rationale**

To see how the program will handle space at the beginning at the script.

1. **Script**

A:100

displa A

B:20+50

display B

1. **Expected Output**

Error at line 1.

" A:100"

Invalid expression.

Press any key to continue...

1. **Actual Output**

Error at line 1.

" A:100"

Invalid expression.

Press any key to continue...

1. **Result**

PASSED

**Test Case #5**

1. **Rationale**

To see how the program will handle the case of improper identifiers (variable titles that are not A, B, C, D, or E.

1. **Script**A:100+20

B:A/2

B:A+L

1. **Expected Output**

Error at line 3.

"B:A+L"

Invalid expression.

Press any key to continue...

1. **Actual Output**

Error at line 3.

"B:A+L"

Invalid expression.

Press any key to continue...

1. **Result**

**PASSED**

**PASS RATIO: 1**