BEGIN

SET lastResult = 0

SET lastOperation = ""

WHILE true

DISPLAY "Ali's Smart Expense Calculator"

DISPLAY "1. Addition"

DISPLAY "2. Subtraction"

DISPLAY "3. Multiplication"

DISPLAY "4. Division"

DISPLAY "5. Repeat Last Calculation"

DISPLAY "6. Exit"

INPUT choice

IF choice == 6 THEN

PRINT "Goodbye!"

BREAK

ELSE IF choice == 5 THEN

IF lastOperation is empty THEN

PRINT "No previous calculation to repeat."

ELSE

PRINT "Repeating last calculation:"

PRINT lastOperation, "=", lastResult

ENDIF

ELSE

INPUT num1

INPUT num2

IF choice == 1 THEN

result = num1 + num2

operation = "Addition"

ELSE IF choice == 2 THEN

result = num1 - num2

operation = "Subtraction"

ELSE IF choice == 3 THEN

result = num1 \* num2

operation = "Multiplication"

ELSE IF choice == 4 THEN

IF num2 == 0 THEN

PRINT "Error: Division by zero!"

CONTINUE

ELSE

result = num1 / num2

operation = "Division"

ENDIF

ENDIF

PRINT "Result = ", result

SET lastResult = result

SET lastOperation = operation + " of " + num1 + " and " + num2

ENDIF

END WHILE

END