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FUNCTION main():
  BEGIN
    num1 <- read first variable
    PRINT "Select operation:"
    PRINT "1. Addition"
    PRINT "2. Subtraction"
    PRINT "3. Multiplication"
    PRINT "4. Division"
    PRINT "5. Exit"
    operation = READ_INPUT()
    SWITCH operation:
      CASE "1":
        addition()
        BREAK
      CASE "2":
        subtraction()
        BREAK
      CASE "3":
        multiplication()
        BREAK
      CASE "4":
        division()
        BREAK
      CASE "5":
        PRINT "Exiting calculator program..."
        EXIT
      DEFAULT:
        PRINT "Invalid operation. Please select again."

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FUNCTION addition():
  num2 <- read second variable
  result = num1 + num2
  DISPLAY result

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FUNCTION subtraction():
  num2 <- read second variable
  result = num1 - num2
  DISPLAY result

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FUNCTION multiplication():
  num2 <- read second variable
  result = num1 * num2
  DISPLAY result

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FUNCTION division():
  num2 <- read second variable
  IF num2 == 0:
    DISPLAY "Error: Division by zero"
  ELSE:
    result = num1 / num2
    DISPLAY result

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flowchart

