4 Function Calculator Algorithm

Inputs: (from user or file or wherever)

User provides the operation and two operands

Outputs: (text description of what the algorithm will output)

Program outputs the results of the operation.

Relevant Constants and Formulas:

Main Algorithm (numbered steps)

1. Print welcome message
2. Prompt the user for the operation
3. Perform correct operation
4. Output result to user

Step Refinements (provide a refinement for each numbered step that has multiple sub-steps)

Step 3 refinement
Step 3 has four variations, depending on the operation selected by the user.

3A Addition
    3A.1 prompt the user for the two operands to be added
    3A.2 return the sum of the two operands

3B Subtraction
    3B.1 prompt the user for the first operand (Minuend)
    3B.2 prompt the user for the second operand (Subtrahend)
    3B.3 return the difference (Minuend – Subtrahend)

3C Multiplication
    3C.1 prompt the user for the two operands to be multiplied
    3C.2 return the product of the two

3D Division
    3D.1 prompt the user for the dividend
    3D.2 prompt the user for the divisor
    3D.3 check to ensure the divisor is not 0
    3D.4 return the quotient of dividend/divisor