Module 1 Critical Thinking Assignment

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HEADER: file name, author, institution, module, date, and description

# Function for user input

FUNCTION user_input() RETURNS tuple[float, float]

        PRINT  “Provide a number:”

        INPUT num1

        PRINT “Provide a number:”

        INPUT num2

        RETURN (num1, num2)

# Function that calculates and prints results

FUNCTION calculate_and_print_results(num1: float, num2: float) RETURNS None

        PRINT "Part 1: Addition and Subtraction"

        PRINT "Addition: ", CALL add_numbers(num1, num2)

        PRINT "Subtraction: ", CALL subtract_numbers(num1, num2)

        PRINT "Part 2: Multiplication and Division"

        PRINT "Multiplication: ", CALL multiply_numbers(num1, num2)

        PRINT "Division: ", CALL divide_numbers(num1, num2)

# Function that adds 2 numbers

FUNCTION add_numbers(num1: float, num2: float) RETURNS float

        return num1 + num2

# Function that subtracts 2 numbers

FUNCTION subtract_numbers(num1: float, num2: float) RETURNS float

        RETURN num1 - num2
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# Function that multiplies 2 numbers
FUNCTION multiply_numbers(num1: float, num2: float) RETURNS float
    RETURN num1 * num2
# Function that divides 2 numbers
FUNCTION divide_numbers(num1: float, num2: float) RETURNS float OR None
    TRY
        RETURN num1 / num2
    EXCEPT ZeroDivisionError
        PRINT “Error: can’t divide by zero”
# Main function
FUNCTION main() RETURNS None
    num1, num2 = CALL user_input()
    CALL calculate_and_print_results(num1, num2)
# Entry point of the program
IF __name__ == ‘__main__’
    CALL main()
```