# Step 1: Define functions for each arithmetic operation

def add(x, y):

    return x + y

def subtract(x, y):

    return x - y

def multiply(x, y):

    return x \* y

def divide(x, y):

    if y == 0:

        return "Error: Division by zero is not allowed."

    return x / y

# Step 2: Display operation choices

print("Select operation:")

print("1. Add (+)")

print("2. Subtract (-)")

print("3. Multiply (\*)")

print("4. Divide (/)")

# Step 3: Get user input

choice = input("Enter choice (1/2/3/4): ")

# Validate the user's choice

if choice in ('1', '2', '3', '4'):

    num1 = float(input("Enter first number: "))

    num2 = float(input("Enter second number: "))

    # Step 4: Perform the calculation

    if choice == '1':

        print(f"{num1} + {num2} = {add(num1, num2)}")

    elif choice == '2':

        print(f"{num1} - {num2} = {subtract(num1, num2)}")

    elif choice == '3':

        print(f"{num1} \* {num2} = {multiply(num1, num2)}")

    elif choice == '4':

        result = divide(num1, num2)

        if isinstance(result, str):

            print(result)

        else:

            print(f"{num1} / {num2} = {result}")

else:

    print("Invalid input. Please enter a number between 1 and 4.")