Calculator.py

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# Simple Calculator Program

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."
    return x / y

# Main Program
print("Simple Calculator")
print("Select operation:")
print("1. Add")
print("2. Subtract")
print("3. Multiply")
print("4. Divide")

while True:
    # Take input from the user
    choice = input("Enter choice (1/2/3/4): ")

    if choice in ('1', '2', '3', '4'):
        num1 = float(input("Enter first number: "))
        num2 = float(input("Enter second number: "))

        if choice == '1':
            print(f"The result is: {add(num1, num2)}")
        elif choice == '2':
            print(f"The result is: {subtract(num1, num2)}")
        elif choice == '3':
            print(f"The result is: {multiply(num1, num2)}")
        elif choice == '4':
            print(f"The result is: {divide(num1, num2)}")
    else:
        print("Invalid input")

    # Check if the user wants to perform another calculation
    next_calculation = input("Do you want to perform another calculation? (yes/no): ")
    if next_calculation.lower() != 'yes':
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break