# Basic Calculator Program

# This program performs basic arithmetic operations on two numbers

def calculator():

print("\nWelcome to the Basic Calculator!")

print("Available operations: + (addition), - (subtraction), \* (multiplication), / (division)\n")

try:

# Get user input

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

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

operation = input("Enter operation (+, -, \*, /): ").strip()

# Perform calculation

if operation == '+':

result = num1 + num2

print(f"\nResult: {num1} {operation} {num2} = {result}")

elif operation == '-':

result = num1 - num2

print(f"\nResult: {num1} {operation} {num2} = {result}")

elif operation == '\*':

result = num1 \* num2

print(f"\nResult: {num1} {operation} {num2} = {result}")

elif operation == '/':

if num2 == 0:

print("\nError: Cannot divide by zero!")

else:

result = num1 / num2

print(f"\nResult: {num1} {operation} {num2} = {result}")

else:

print("\nError: Invalid operation entered! Please use +, -, \*, or /")

except ValueError:

print("\nError: Please enter valid numbers!")

# Run the calculator

if \_\_name\_\_ == "\_\_main\_\_":

calculator()