# Simple Calculator

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

def calculator():

print("Welcome to the Simple Calculator!")

print("Choose an operation:")

print("1. Addition (+)")

print("2. Subtraction (-)")

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

print("4. Division (/)")

try:

# Prompt the user for operation choice

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

if choice in ['1', '2', '3', '4']:

# Prompt the user for two numbers

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

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

# Perform the operation based on user choice

if choice == '1':

print(f"The result of {num1} + {num2} is: {add(num1, num2)}")

elif choice == '2':

print(f"The result of {num1} - {num2} is: {subtract(num1, num2)}")

elif choice == '3':

print(f"The result of {num1} \* {num2} is: {multiply(num1, num2)}")

elif choice == '4':

result = divide(num1, num2)

print(f"The result of {num1} / {num2} is: {result}")

else:

print("Invalid input! Please select a valid operation (1/2/3/4).")

except ValueError:

print("Invalid input! Please enter numeric values.")

# Run the calculator

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

calculator()