def calculator():

while True:

try:

num1 = float(input("Enter first number (or 'exit' to quit): "))

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

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

if operator == "+":

result = num1 + num2

elif operator == "-":

result = num1 - num2

elif operator == "\*":

result = num1 \* num2

elif operator == "/":

if num2 == 0:

print("Error: Cannot divide by zero.")

continue

result = num1 / num2

else:

print("Invalid operator. Use +, -, \*, or /.")

continue

print("Result:", result)

except ValueError:

print("Invalid input. Please enter numbers.")

except KeyboardInterrupt:

print("\nExiting calculator. Goodbye!")

break

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

calculator()

OUTPUT

Enter first number (or 'exit' to quit): 9

Enter operation (+, -, \*, /): +

Enter second number: 9

Result: 18.0

Enter first number (or 'exit' to quit): 8

Enter operation (+, -, \*, /): -

Enter second number: 5

Result: 3.0

Enter first number (or 'exit' to quit): 12

Enter operation (+, -, \*, /): \*

Enter second number: 5

Result: 60.0

Enter first number (or 'exit' to quit): 4

Enter operation (+, -, \*, /): /

Enter second number: 16

Result: 0.25