# Project 3 :- Simple Calculator (CLI)

Objective:

Build a basic calculator that supports addition, subtraction, multiplication, and division.

Skills Gained:

Functions, Control Flow, Error Handling

Requirements:

* Take user input for numbers and operation.
* Perform the calculation and display the result.
* Handle division by zero and invalid input errors.
* Optional: Add support for more operations (e.g., exponentiation).

Code :- def simple\_calculator():

    print("\n🔢 Simple CLI Calculator")

    print("-----------------------")

    print("Operations: +, -, \*, /")

    print("Type 'quit' to exit\n")

    while True:

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

        if num1.lower() == 'quit':

            print("Goodbye! 👋")

            break

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

        if operator.lower() == 'quit':

            print("Goodbye! 👋")

            break

        num2 = input("Enter second number (or 'quit'): ")

        if num2.lower() == 'quit':

            print("Goodbye! 👋")

            break

        try:

            num1 = float(num1)

            num2 = float(num2)

            if operator == '+':

                result = num1 + num2

            elif operator == '-':

                result = num1 - num2

            elif operator == '\*':

                result = num1 \* num2

            elif operator == '/':

                if num2 == 0:

                    print("Error: Division by zero! ❌\n")

                    continue

                result = num1 / num2

            else:

                print("Invalid operator! Please use +, -, \*, or /.\n")

                continue

            print(f"Result: {num1} {operator} {num2} = {result}\n")

        except ValueError:

            print("Error: Please enter valid numbers! ❌\n")

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

    simple\_calculator()

Output :- Enter first number (or 'quit'): 7

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

Enter second number (or 'quit'): 0

Error: Division by zero! ❌

Enter first number (or 'quit'): 8

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

Enter second number (or 'quit'): 90

Result: 8.0 \* 90.0 = 720.0

Enter first number (or 'quit'): quit

Goodbye! 👋