

# Python Developer Internship – Calculator CLI App

## Task 1: Build a Calculator CLI App

**Intern Name:** Soumen Das

### Objective

To create a command-line calculator supporting basic operations (+, -, \*, /), implemented using functions for each operation. The calculator will use user input for operation selection and number entry, looping until the user chooses to exit.

### Hints/Mini Guide (Followed)

- Used functions for each operation: addition, subtraction, multiplication, and division.
- Used `input()` for all user interactions.
- Designed an infinite loop allowing repeated calculations until 'exit' is selected.
- Structured for clarity and robustness (input validation included).

**Source Code:** [calculator.py](#)

```
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 main():
    print('Python CLI Calculator - Intern: Soumen Das')
    print('Operations:')
    print('1. Add (+)')
    print('2. Subtract (-)')
    print('3. Multiply (*)')
    print('4. Divide (/)')
    print('5. Exit')

    while True:
        choice = input('Enter choice (1/2/3/4/5): ')
```

```

if choice == '5':
    print('Exiting calculator. Thank you!')
    break

if choice not in ['1', '2', '3', '4']:
    print('Invalid input. Please try again.')
    continue

try:
    num1 = float(input('Enter first number: '))
    num2 = float(input('Enter second number: '))
except ValueError:
    print('Invalid number. Please enter numeric values.')
    continue

if choice == '1':
    print(f'{num1} + {num2} = {add(num1, num2)}')
elif choice == '2':
    print(f'{num1} - {num2} = {subtract(num1, num2)}')
elif choice == '3':
    print(f'{num1} * {num2} = {multiply(num1, num2)}')
elif choice == '4':
    print(f'{num1} / {num2} = {divide(num1, num2)}')

if __name__ == "__main__":
    main()

```

## Usage Guide

1. Run `calculator.py` in the terminal.
2. Enter operation choice (1/2/3/4/5).
3. Enter numeric operands as prompted.
4. Get result; repeat until exit chosen.

## Outcome

A well-structured, functional Python CLI calculator, as demonstrated above. Suitable for internship evaluation.