Python Developer Internship - Task 1

Build a Calculator CLI App

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Objective

The objective of this task is to create a command-line calculator application using Python. The calculator supports basic arithmetic operations: addition, subtraction, multiplication, and division. It takes user input for the operation and the numbers, and loops until the user chooses to exit.

Python Script (calculator.py)

Below is the complete Python script that fulfills the task requirements. It uses separate functions for each operation, takes user input, and includes a main loop with error handling for invalid input and division by zero.

calculator.py

```
# Python Developer Internship - Task 1
# Intern Name: Soumen Das
# Task: Build a Calculator CLI App

def add(x, y):
    """This function adds two numbers"""
    return x + y

def subtract(x, y):
    """This function subtracts two numbers"""
    return x - y

def multiply(x, y):
    """This function multiplies two numbers"""
    return x * y

def divide(x, y):
    """This function divides two numbers"""
    if y == 0:
        return "Error! Division by zero."
    else:
        return x / y

def main():
    """Main function to run the calculator app"""
    print("Welcome to the Calculator CLI App!")
    print("Intern: Soumen Das\n")

    while True:
        print("Please select operation:")
        print("1. Add")
        print("2. Subtract")
        print("3. Multiply")
        print("4. Divide")
        print("5. Exit")

        # Take input from the user
        choice = input("Enter choice(1/2/3/4/5): ")

        # Check if choice is one of the options
        if choice in ('1', '2', '3', '4'):
            try:
                num1 = float(input("Enter first number: "))
                num2 = float(input("Enter second number: "))
            except ValueError:
                print("Invalid input. Please enter numbers only.\n")
                continue

            if choice == '1':
                print(f"{num1} + {num2} = {add(num1, num2)}")

            elif choice == '2':
                print(f"{num1} - {num2} = {subtract(num1, num2)}")

            elif choice == '3':
```