Challenge 4: Implement a Calculator Class

In this exercise, you have to implement a calculator which can perform addition, subtraction, multiplication, and division.

WE'LL COVER THE FOLLOWING ^

- Problem Statement
 - Input
 - Output
 - Sample Input
 - Sample Output
- Coding Exercise

Problem Statement

Write a C# class called Calculator with:

- private fields:
 - o _num1 and _num2 (double type)
- Methods:
 - o Add(), a *method* which returns the sum of two numbers.
 - Subtract(), a method which returns the difference of _num1 and num2 (num2 num1).
 - Multiply(), a method which returns the result of multiplication of numbers.
 - Divide(), a method which returns the result of division of _num2 by _num1.
- Define a parameterized constructor which takes two parameters num1

and num2 and assigns these parameters to the respective fields in the class.

Input

Passing numbers in the parameterized constructor

Output

Addition, Subtraction, Division, and Multiplication

Sample Input

```
Calculator calc = new Calculator(10, 94);
calc.Add()
calc.Subtract()
calc.Multiply()
calc.Divide()
```

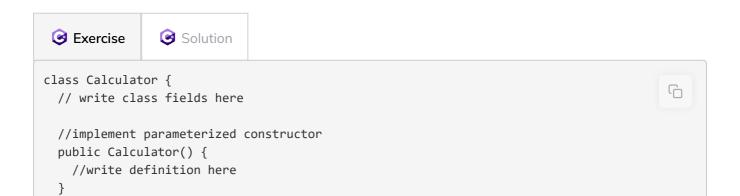
Sample Output

```
104
84
940
9.4
```

Coding Exercise

First, take a close look and design a step-by-step algorithm before jumping to the implementation. This problem is designed for your practice, so initially try to solve it on your own. If you get stuck, you can always refer to the solution provided in the solution review.

Good luck!



```
public double Add(double n1, double n2) {
    //write definition here
    return 0;
  }
 public double Subtract(double n1, double n2) {
   //write definition here
   return 0;
 public double Multiply(double n1, double n2) {
   //write definition here
   return 0;
 public double Divide(double n1, double n2) {
    //write definition here
    return 0;
  }
}
class Demo {
 public static void Main(string[] args) {
   Calculator calc = new Calculator();
   Console.WriteLine(calc.Add(10, 94));
   Console.WriteLine(calc.Subtract(10, 94));
   Console.WriteLine(calc.Multiply(10, 94));
    Console.WriteLine(calc.Divide(10, 94));
  }
}
```

The solution will be explained in the next lesson.