

6.6-Method Overloading

Program

```
class MathOperations {

    public static double sum(double num1, double num2) {

        return num1 + num2;

    }

    public static double difference(double num1, double num2) {

        return num1 - num2;

    }

    public static double product(double num1, double num2) {

        return num1 * num2;

    }

    public static double quotient(double num1, double num2) {

        if (num2 != 0) {

            return num1 / num2;

        } else {

            return 0; // Indicate division by zero

        }

    }

}

public static void main(String[] args) {

    Console.WriteLine("Sum : " + sum(10.0, 20.0));

    Console.WriteLine("Difference : " + difference(30.0, 15.0));

    Console.WriteLine("Product : " + product(5.0, 4.0));

    Console.WriteLine("Quotient : " + quotient(50.0, 2.0));

}
```

```
}  
  
}
```

Exercise

Write a C# program that defines a class encapsulating basic mathematical operations.

Implement static methods within the class to perform addition, subtraction, multiplication, and division operations.

The methods should accept two double-type parameters representing the operands and return the result of the respective operation.

In the main method, demonstrate the usage of these methods by performing various mathematical operations and displaying the results to the console.

Hint

Implement static methods within the class to perform basic mathematical operations such as addition, subtraction, multiplication, and division.

Explanation

defines a class encapsulating basic arithmetic operations. Static methods within the class perform addition, subtraction, multiplication, and division operations. In the main method, the program demonstrates the usage of these methods by performing arithmetic operations on predefined pairs of numbers and printing the results to the console using `Console.WriteLine()`.