Calculator Using interface

```java
import java.util.Scanner;
interface Calculator {
    double add(double x, double y);
    double subtract(double x, double y);
    double multiply(double x, double y);
    double divide(double x, double y);
}
class BasicCalculator implements Calculator {
    @Override
    public double add(double x, double y) {
        return x + y;
    }

    @Override
    public double subtract(double x, double y) {
        return x - y;
    }

    @Override
    public double multiply(double x, double y) {
        return x * y;
    }
    @Override
    public double divide(double x, double y) {
        if (y == 0) {
            System.out.println("Cannot divide by zero!");
            return Double.NaN; // NaN represents an undefined number
        }
        return x / y;
    }
}

public class CalculatorApp {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
```
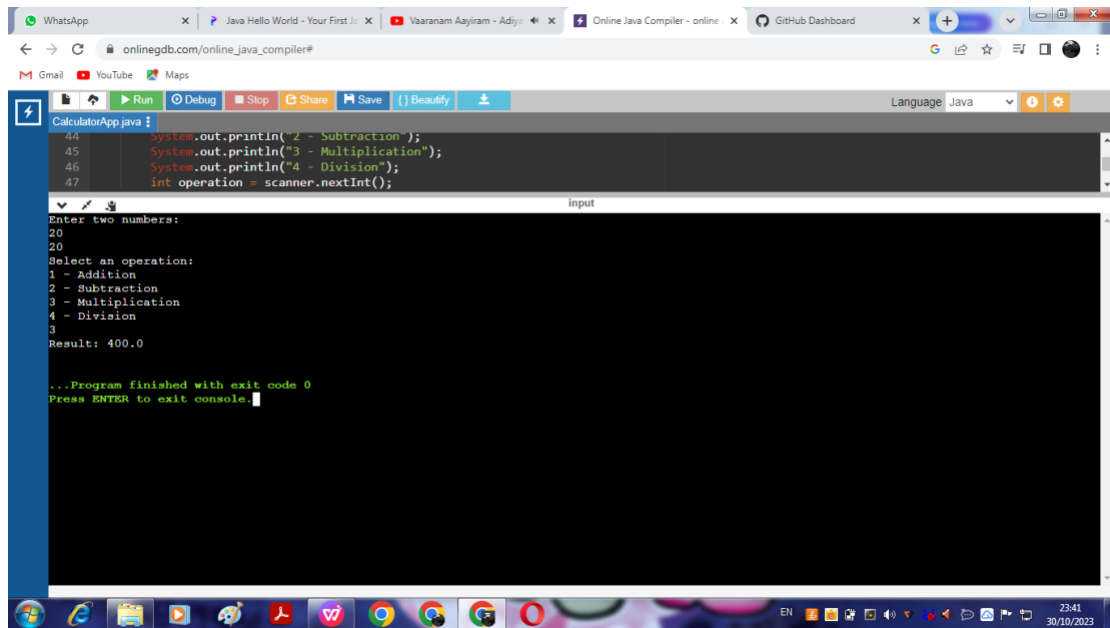
```java
        Calculator basicCalculator = new BasicCalculator();

        System.out.println("Enter two numbers:");
        double num1 = scanner.nextDouble();
        double num2 = scanner.nextDouble();

        System.out.println("Select an operation: ");
        System.out.println("1 - Addition");
        System.out.println("2 - Subtraction");
        System.out.println("3 - Multiplication");
        System.out.println("4 - Division");
        int operation = scanner.nextInt();

        double result = 0;

        switch (operation) {
            case 1:
                result = basicCalculator.add(num1, num2);
                break;
            case 2:
                result = basicCalculator.subtract(num1, num2);
                break;
            case 3:
                result = basicCalculator.multiply(num1, num2);
                break;
            case 4:
                result = basicCalculator.divide(num1, num2);
                break;
            default:
                System.out.println("Invalid operation");
        }

        System.out.println("Result: " + result);

        scanner.close();
    }
}
```