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TASK 1.CALCULATOR

```java
import java.util.Scanner;

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

        System.out.println("Welcome to Basic Calculator!");
        System.out.println("Select operation:");
        System.out.println("1. Addition");
        System.out.println("2. Subtraction");
        System.out.println("3. Multiplication");
        System.out.println("4. Division");
        System.out.print("Enter choice (1/2/3/4): ");

        int choice = scanner.nextInt();

        System.out.print("Enter first number: ");
        double num1 = scanner.nextDouble();

        System.out.print("Enter second number: ");
        double num2 = scanner.nextDouble();

        double result;
        switch (choice) {
            case 1:
                result = add(num1, num2);
                System.out.println("Result: " + result);
                break;
            case 2:
```

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                result = subtract(num1, num2);
                System.out.println("Result: " + result);
                break;
            case 3:
                result = multiply(num1, num2);
                System.out.println("Result: " + result);
                break;
            case 4:
                if (num2 == 0) {
                    System.out.println("Error: Cannot divide by zero!");
                } else {
                    result = divide(num1, num2);
                    System.out.println("Result: " + result);
                }
                break;
            default:
                System.out.println("Invalid choice!");
        }

        scanner.close();
    }

    public static double add(double x, double y) {
        return x + y;
    }

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

    public static double multiply(double x, double y) {
        return x * y;
    }

    public static double divide(double x, double y) {
        return x / y;
    }
```

}