

```
import java.util.Scanner;

public class BasicArithmetic {
    public static void main(String[] args) {
        // Create a Scanner object to read input
        Scanner scanner = new Scanner(System.in);

        // Prompt the user to enter two digits
        System.out.print("Enter the first digit: ");
        double digit1 = scanner.nextDouble();

        System.out.print("Enter the second digit: ");
        double digit2 = scanner.nextDouble();

        // Prompt the user to choose an operation
        System.out.println("Choose an operation:");
        System.out.println("1. Addition (+)");
        System.out.println("2. Subtraction (-)");
        System.out.println("3. Multiplication (*)");
        System.out.println("4. Division (/)");

        // Read the user's choice
        System.out.print("Enter the operation number: ");
        int operation = scanner.nextInt();

        double result = 0;

        // Perform the selected operation
        switch (operation) {
            case 1:
                result = digit1 + digit2;
                break;
            case 2:
                result = digit1 - digit2;
                break;
            case 3:
                result = digit1 * digit2;
                break;
            case 4:
                // Check for division by zero
                if (digit2 != 0) {
                    result = digit1 / digit2;
                } else {
                    System.out.println("Error: Division by zero is not allowed.");
                    // Exit the program
                    System.exit(1);
                }
                break;
        }
    }
}
```

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        default:
            System.out.println("Invalid operation number.");
            // Exit the program
            System.exit(1);
    }

    // Display the result
    System.out.println("The result is: " + result);

    // Close the Scanner to prevent resource leak
    scanner.close();
}
}
```