**package** arithematiccalculator;

**import** java.util.Scanner;

**public** **class** ArithematicCalculator {

**public** **static** **void** main(String[] args) {

Scanner scanner = **new** Scanner(System.***in***);

System.***out***.println("Welcome to the Arithmetic Calculator!");

System.***out***.print("Enter the first number: ");

**double** num1 = scanner.nextDouble();

System.***out***.print("Enter the second number: ");

**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 (/)");

System.***out***.print("Enter the operation number: ");

**int** choice = scanner.nextInt();

**double** result;

**switch** (choice) {

**case** 1:

result = num1 + num2;

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

**break**;

**case** 2:

result = num1 - num2;

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

**break**;

**case** 3:

result = num1 \* num2;

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

**break**;

**case** 4:

**if** (num2 != 0) {

result = num1 / num2;

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

} **else** {

System.***out***.println("Error");

}

**break**;

**default**:

System.***out***.println("Invalid operation number. Please select a valid operation.");

}

scanner.close();

}

}