Generate a Java code to perform simple arithmetic operations and to throw Arithmetic Exception for Division-by-Zero.

CODE:

import java.util.Scanner;

public class ArithmeticOperations {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

// Input two numbers from the user

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

double num1 = scanner.nextDouble();

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

double num2 = scanner.nextDouble();

// Perform arithmetic operations

try {

double sum = num1 + num2;

double difference = num1 - num2;

double product = num1 \* num2;

// Check for division by zero

if (num2 == 0) {

throw new ArithmeticException("Division by zero is not allowed.");

}

double quotient = num1 / num2;

// Output results

System.out.println("Sum: " + sum);

System.out.println("Difference: " + difference);

System.out.println("Product: " + product);

System.out.println("Quotient: " + quotient);

} catch (ArithmeticException e) {

System.out.println("Error: " + e.getMessage());

}

scanner.close(); // Closing the scanner object

}

}

OUTPUT:

C:\javap>javac ArithmeticOperations.java

C:\javap>java ArithmeticOperations

Enter first number: 26

Enter second number: 02

Sum: 28.0

Difference: 24.0

Product: 52.0

Quotient: 13.0

