import java.util.Scanner;

class Main {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

char operator;

Double number1, number2, result;

boolean keepRunning = true;

while (keepRunning) {

// Ask users to enter operator

System.out.println("Choose an operator: +, -, \*, or /");

operator = input.next().charAt(0);

// Validate the operator

if (operator != '+' && operator != '-' && operator != '\*' && operator != '/') {

System.out.println("Invalid operator! Please enter one of +, -, \*, or /.");

continue; // restart loop

}

// Ask users to enter numbers

System.out.println("Enter first number");

while (!input.hasNextDouble()) {

System.out.println("Invalid input! Please enter a valid number.");

input.next(); // consume the invalid input

}

number1 = input.nextDouble();

System.out.println("Enter second number");

while (!input.hasNextDouble()) {

System.out.println("Invalid input! Please enter a valid number.");

input.next(); // consume the invalid input

}

number2 = input.nextDouble();

switch (operator) {

// Performs addition between numbers

case '+':

result = number1 + number2;

System.out.println(number1 + " + " + number2 + " = " + result);

break;

// Performs subtraction between numbers

case '-':

result = number1 - number2;

System.out.println(number1 + " - " + number2 + " = " + result);

break;

// Performs multiplication between numbers

case '\*':

result = number1 \* number2;

System.out.println(number1 + " \* " + number2 + " = " + result);

break;

// Performs division between numbers

case '/':

if (number2 == 0) {

System.out.println("Error! Division by zero is not allowed.");

} else {

result = number1 / number2;

System.out.println(number1 + " / " + number2 + " = " + result);

}

break;

}

// Ask the user if they want to perform another calculation

System.out.println("Do you want to perform another calculation? (yes/no)");

String userResponse = input.next();

if (!userResponse.equalsIgnoreCase("yes")) {

keepRunning = false;

}

}

input.close();

}

}