import java.util.Scanner;

public class Mycal{

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

double num1, num2, result;

char operator;

while (true) {

System.out.println("Simple Calculator");

System.out.println("Enter an operation (+, -, \*, /) or 'q' to quit:");

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

if (operator == 'q') {

System.out.println("Thank you for using the calculator. Goodbye!");

break;

}

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

System.out.println("Invalid operator. Please try again.");

continue;

}

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

num1 = scanner.nextDouble();

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

num2 = scanner.nextDouble();

switch (operator) {

case '+':

result = num1 + num2;

System.out.printf("%.2f + %.2f = %.2f%n", num1, num2, result);

break;

case '-':

result = num1 - num2;

System.out.printf("%.2f - %.2f = %.2f%n", num1, num2, result);

break;

case '\*':

result = num1 \* num2;

System.out.printf("%.2f \* %.2f = %.2f%n", num1, num2, result);

break;

case '/':

if (num2 == 0) {

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

} else {

result = num1 / num2;

System.out.printf("%.2f / %.2f = %.2f%n", num1, num2, result);

}

break;

}

System.out.println();

}

scanner.close();

}

}