import java.util.Scanner;

public class ExceptionHandlingExample {

public static void processInput() {

Scanner scanner = new Scanner(System.in);

try {

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

double number = scanner.nextDouble(); // Read user input

double reciprocal = 1 / number; // Calculate reciprocal

System.out.println("Reciprocal: " + reciprocal);

} catch (java.util.InputMismatchException e) {

System.out.println("Error: Please enter a valid number!");

} catch (ArithmeticException e) {

System.out.println("Error: Cannot divide by zero!");

} finally {

scanner.close(); // Close scanner

System.out.println("Process completed.");

}

}

public static void main(String[] args) {

processInput(); // Call method to process user input

}

}