**Exercise 4: Exception Testing**

**ExceptionThrower.java**

package mypackage;

public class ExceptionThrower {

public void throwException(String input) {

if (input == null || input.isEmpty()) {

throw new IllegalArgumentException("Input cannot be null or empty");

}

System.out.println("Valid input: " + input);

}

}

**ExcetionThrowerTest.java**

package mypackage;

import org.junit.jupiter.api.Test;

import static org.junit.jupiter.api.Assertions.\*;

public class ExceptionThrowerTest {

ExceptionThrower thrower = new ExceptionThrower();

@Test

void testThrowsExceptionForNull() {

assertThrows(IllegalArgumentException.class, () -> {

thrower.throwException(null);

});

}

@Test

void testThrowsExceptionForEmpty() {

assertThrows(IllegalArgumentException.class, () -> {

thrower.throwException("");

});

}

@Test

void testDoesNotThrowExceptionForValidInput() {

assertDoesNotThrow(() -> {

thrower.throwException("Hello");

});

}

}

