**Exercise 5: Timeout and Performance Testing**

1. PerformanceTester.java

package com.exercise5;

public class PerformanceTester {

public void performTask() {

try {

Thread.*sleep*(300);

} catch (InterruptedException e) {

Thread.*currentThread*().interrupt();

}

}

}

1. PerformanceTesterTest.java

package com.exercise5;

import org.junit.jupiter.api.Test;

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

import java.time.Duration;

public class PerformanceTesterTest {

*@Test*

void testPerformTaskCompletesWithinTime() {

PerformanceTester tester = new PerformanceTester();

*assertTimeout*(Duration.*ofMillis*(500), tester::performTask);

}

}

Output:

A screenshot of a computer

AI-generated content may be incorrect.