JUNIT ADVANCED TESTING:

Exercise 5: Timeout and Performance Testing

CODE:

PerformanceTester.java:

package example;

public class PerformanceTester {

public void performTask() {

try {

Thread.*sleep*(500);

} catch (InterruptedException e) {

e.printStackTrace();

}

}

}

PerformanceTesterTest.java:

package example;

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

import java.time.Duration;

import org.junit.jupiter.api.Test;

public class PerformanceTesterTest {

PerformanceTester tester = new PerformanceTester();

@Test

void testPerformTaskCompletesWithinTimeLimit() {

assertTimeout(Duration.ofMillis(1000), () -> {

tester.performTask(); // Should complete within 1000 ms

});

}

}

OUTPUT:

