**Exercise 5: Timeout and Performance Testing**

**PerformanceTester.java**

public class PerformanceTester {

public void performTask() throws InterruptedException {

Thread.sleep(100);

}

}

**PerformanceTesterTest.java**

import com.mycompany.mavenproject1.PerformanceTester;

import org.junit.jupiter.api.Test;

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

import java.time.Duration;

public class PerformanceTesterTest {

@Test

void testTaskTimeout() {

PerformanceTester pt = new PerformanceTester();

assertTimeout(Duration.ofMillis(500), () -> pt.performTask());

}

}

**Output**

 