**Phase 1 Practice Project – Assisted Practice**

**2 . Write a program in java demonstrate Sleep() and Wait().**

**Source Code:**

package Threads;

import java.io.\*;

import java.lang.\*;

public class SleepWait {

public static void main(String[] args) {

Thread thread1 = new Thread(() -> {

synchronized (SleepWait.class) {

System.out.println("Thread 1 started");

try {

Thread.sleep(5000); // Sleep for 2 seconds

} catch (InterruptedException ie) {

ie.printStackTrace();

}

System.out.println("Thread 1 completed");

SleepWait.class.notify(); // Notify waiting threads

}

});

thread1.start();

try {

thread1.join();

} catch (InterruptedException ie) {

ie.printStackTrace();

}

System.out.println("All threads completed");

}

}

**Output :**

