

Phase-1 Practice Project: Assisted Practice

2. Write a program in Java to demonstrate sleep() and wait()

```
package Demo;

public class SleepWait {

    public static void main(String[] args) {

        Object lock = new Object();

        Thread thread1 = new Thread(() -> {

            synchronized (lock) {

                System.out.println("Thread 1 is waiting...");

                try {

                    lock.wait();

                } catch (InterruptedException e) {

                    e.printStackTrace();

                }

                System.out.println("Thread 1 is awake!");

            }

        });

        Thread thread2 = new Thread(() -> {

            synchronized (lock) {

                System.out.println("Thread 2 is running...");

                lock.notify();

                try {

                    Thread.sleep(2000);

                } catch (InterruptedException e) {

                    e.printStackTrace();

                }

                System.out.println("Thread 2 is finished!");

            }

        });

    }

}
```

```
    }  
    });  
  
    thread1.start();  
    thread2.start();  
}  
}
```

<terminated> SleepWait [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe

Thread 2 is running...

Thread 2 is finished!

Thread 1 is awake!