Phase-1 Practice Project: Assisted Practice2

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

--> Source code:

```java
public class SleepWait {

    public static void main(String[] args) {

        SharedResource sharedResource = new SharedResource();

        Thread t1 = new Thread(() ->{

            try {

                sharedResource.doTask();

            }catch(InterruptedException e) {

                e.printStackTrace();

            }

        });

        Thread t2 = new Thread(() ->{

            try {

                sharedResource.waitToNotify();

            }catch(InterruptedException e) {

                e.printStackTrace();

            }

        });

        t1.start();

        t2.start();

    }

}
```

```java
class SharedResource{

        synchronized void doTask()throws InterruptedException{

                System.out.println("Task started");

                Thread.sleep(3000);

                System.out.println("Task completed");

                notify();

        }

        synchronized void waitToNotify() throws InterruptedException{

                System.out.println("Waiting...");

                wait();

                System.out.println("Notified");

        }

}
```