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

```java
public class SleepvsWait
{
        private static Object o = new Object();
        public static void main(String[] args) throws InterruptedException
        {
                System.out.println("Thread Going to sleep...");
                Thread.sleep(1000);
                System.out.println("Thread woke up after 1 second.");

                synchronized(o)
                {
                        System.out.println("Thread will wait for notify...");
                        o.wait();
                }

                System.out.println("Thread woken up after notify() or notifyAll() or timeout.");
        }
}
```

OUTPUT:

```
Thread Going to sleep..
Thread woke up after 1 second
Thread will wait for notify
```