

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

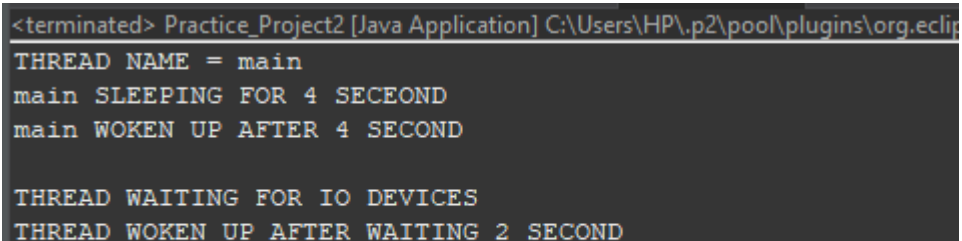
SOURCE CODE

```
//demonstrating wait() and show()
package assistedPracticeProject2;
import java.lang.*; //importing packages
public class Practice_Project2
{
    //creating object waitthread
    static Object waitthread = new Object();
    public static void main(String args[]) throws InterruptedException
    {
        //get name of the current thread
        String str=Thread.currentThread().getName();
        //displaying thread name
        System.out.println("THREAD NAME = "+str);
        System.out.println(str +" SLEEPING FOR 4 SECEOND");
        Thread.sleep(4000); //sleeping for 4 sec
        System.out.println(str +" WOKEN UP AFTER 4 SECOND");

        synchronized(waitthread) //synchronized() to handle wait()
        {
            System.out.println("\nTHREAD WAITING FOR IO
DEVICES");

            waitthread.wait(2000); //waiting for 2 sec
        }
        System.out.println("THREAD WOKEN UP AFTER WAITING 2
SECOND");
    }
}
```

OUTPUT



```
<terminated> Practice_Project2 [Java Application] C:\Users\HP\p2\pool\plugins\org.eclip
THREAD NAME = main
main SLEEPING FOR 4 SECEOND
main WOKEN UP AFTER 4 SECOND

THREAD WAITING FOR IO DEVICES
THREAD WOKEN UP AFTER WAITING 2 SECOND
```