```java
import java.util.*;

import java.util.concurrent.Semaphore;

public class ReaderWriter {
    static int mutex=1;

    static int database=1;

    static int Read_Count=0;

    static void Reader() throws Exception
    {
        while(true)
        {
            mutex=wait(mutex);

            Read_Count=Read_Count+1;

            if(Read_Count==1){

                database=signal(database);

            }

            mutex=signal(mutex);

            System.out.println(Read_Count+ " User Reading the Data.........");

            mutex=wait(mutex);

            Read_Count=Read_Count-1;

            if(Read_Count==0)
            {
                database=signal(database);

            }

            mutex=signal(mutex);

            System.out.println("Reading Finished!!!!!!");

            break;


        }
    }

    static int wait(int mutex)
```

```java
    {
        while(mutex<=0)
            break ;
        mutex=mutex-1;
        return mutex;
    }
    static int signal(int database)
    {
        database=database+1;
        return database;
    }
    static void Writer() throws Exception
    {
        while(true)
        {
            database=wait(database);
            System.out.println("Writing on the database......");
            database=signal(database);
            System.out.println("Writing Finished!!!!!.");
            break;
        }
    }
    public static void main(String[] args)throws Exception {
        Writer();
        Reader();
        Reader();

    }
}
```

/* ********************** OUTPUT ***********************

Writing on the database......

Writing Finished!!!!!.

1 User Reading the Data.........

Reading Finished!!!!!!

1 User Reading the Data.........

Reading Finished!!!!!!

 ** */