**2011 final: 1’den 100’e kadar sayan 4 thread sorusu**

**Buffer.java**

public interface Buffer {

public void set( int value );

public int get();

}

**SyncBuffer.java**

public class SyncBuffer implements Buffer{

private Lock accessLock = new ReentrantLock();

private int buffer = 0; // shared by producer and consumer threads

// place int value into buffer

@Override

public void set( int value )

{

accessLock.lock(); // lock this object

try

{

buffer = value; // set new buffer value

System.out.println((buffer)+ " sayıldı " );

} // end try

finally

{

accessLock.unlock(); // unlock this object

} // end finally

} // end method set

// return value from buffer

@Override

public int get()

{

int readValue = 0; // initialize value read from buffer

accessLock.lock(); // lock this object

try

{

readValue = buffer; // retrieve value from buffer

} // end try

finally

{

accessLock.unlock(); // unlock this object

} // end finally

return readValue;

} // end method get

}

**ThreadSayma.java**

public class ThreadSayma extends Thread{

int[] dizi =new int[100];

String isim;

private Buffer sharedLocation;

public ThreadSayma(int[] dizi, String isim, Buffer sharedLocation)

{

this.dizi=dizi;

this.isim=isim;

this.sharedLocation=sharedLocation;

}

@Override

public void run()

{

//synchronized(this)

for(int i=0 ; i<25 ; i++)

{

try {

Thread.sleep(100);

} catch (InterruptedException ex) { Logger.getLogger(ThreadSayma.class.getName()).log(Level.SEVERE, null, ex);

}

System.out.println("şuanki thread "+ isim +" işleme başladı");

sharedLocation.set(sharedLocation.get()+1);

}

}

}

**Main.java**

public class Main {

public static void main(String[] args) {

Buffer sharedLocation = new SyncBuffer();

int [] dizi={};

ThreadSayma t1 = new ThreadSayma(dizi, "t1", sharedLocation);

ThreadSayma t2 = new ThreadSayma(dizi, "t2", sharedLocation);

ThreadSayma t3 = new ThreadSayma(dizi, "t3", sharedLocation);

ThreadSayma t4 = new ThreadSayma(dizi, "t4", sharedLocation);

t1.start();

t2.start();

t3.start();

t4.start();

}

}