|  |
| --- |
| Block |
| public class MathClass  {      void printNumbers(int n)      {          synchronized (this)          {              for (int i = 1; i <= n; i++)              {                  System.out.println(Thread.currentThread().getName() + " :: "+  i);                  Thread.sleep(500);              }          }      }  } |

public class Main

{

    public static void main(String args[])

    {

        final MathClass mathClass = new MathClass();

        Runnable r = new Runnable()

        {

            public void run()

            {

                try {

                    mathClass.printNumbers(3);

                } catch (InterruptedException e) {

                    e.printStackTrace();

                }

            }

        };

        new Thread(r, "ONE").start();

        new Thread(r, "TWO").start();

    }

}

Method

public class MathClass

{

    synchronized void printNumbers(int n)

    {

        for (int i = 1; i <= n; i++)

        {

            System.out.println(Thread.currentThread().getName() + " ::"+  i);

            Thread.sleep(500);

        }

    }

}

public class Main

{

    public static void main(String args[])

    {

        final MathClass mathClass = new MathClass();

        //first thread

        Runnable r = new Runnable()

        {

            public void run()

            {

                try {

                    mathClass.printNumbers(3);

                } catch (InterruptedException e) {

                    e.printStackTrace();

                }

            }

        };

        new Thread(r, "ONE").start();

        new Thread(r, "TWO").start();

    }

}