

## Writing a program in Java to demonstrate synchronization

```
import java.io.*;
import java.util.*;
class Sender
{
    public void send(String msg)
    {
        System.out.println("Sending\t" + msg );
        try
        {
            Thread.sleep(1000);
        }
        catch (Exception e)
        {
            System.out.println("Thread interrupted.");
        }
        System.out.println("\n" + msg + "Sent");
    }
}
class ThreadedSend extends Thread
{
    private String msg;
    private Thread t;
    Sender sender;
    ThreadedSend(String m, Sender obj)
    {
        msg = m;
        sender = obj;
    }

    public void run()
```

```

    {
        synchronized(sender)
        {
            sender.send(msg);
        }
    }
}
class SyncDemo
{
    public static void main(String args[])
    {
        Sender snd = new Sender();
        ThreadedSend S1 =
            new ThreadedSend( " Hi " , snd );
        ThreadedSend S2 =
            new ThreadedSend( " Bye " , snd );
        S1.start();
        S2.start();
        try
        {
            S1.join();
            S2.join();
        }
        catch(Exception e)
        {
            System.out.println("Interrupted");
        }
    }
}

```

