**Java program to demonstrate synchronization**

**package** threads;

**class** Sender {

**public** **void** send(String message) {

System.***out***.println("Sending message: "+message);

**try** {

Thread.*sleep*(2000);

} **catch** (Exception e) {

e.printStackTrace();

}

System.***out***.println(message+" sent\n");

}

}

**class** Demo **extends** Thread {

**private** String message;

Sender sender;

Demo(String message, Sender obj) {

**this**.message = message;

sender = obj;

}

@Override

**public** **void** run() {

**synchronized** (sender) {

sender.send(**this**.message);

}

}

}

**public** **class** synchronization {

**public** **static** **void** main(String[] args) {

Sender sender = **new** Sender();

Demo t1 = **new** Demo("Hello",sender);

Demo t2 = **new** Demo("Bye",sender);

t1.start();

**try**

{

t1.join();

}

**catch**(Exception e)

{

System.***out***.println("Interrupted");

}

t2.start();

}

}