Program 9: Diamond problem using oops concept

```
package mounika9;
     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");
  }
```

