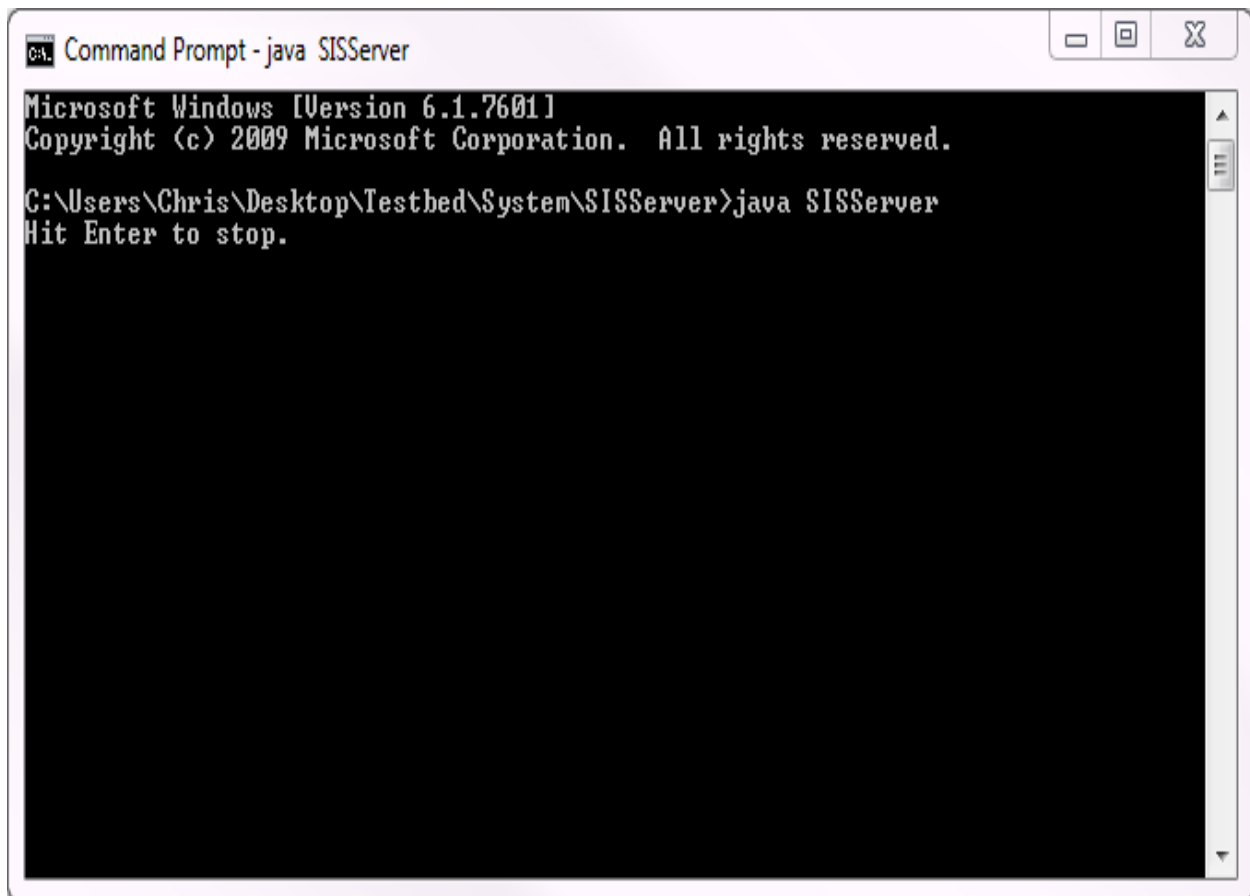


As you can see, the first step we perform is to create the SIS server on my machine by running java SISServer



```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Chris\Desktop\Testbed\System\SISServer>java SISServer
Hit Enter to stop.
```

The SIS server is now listening. We then start PRJRemote.jar and make a connection to the SIS server. We load all the initialization XML files as shown and click the SEND ALL button to send the messages to SIS to initialize the components.

Server's IP: 127.0.0.1 Port Number: 7999 Connect

Sending Message

C:\Users\Chris\Desktop\Testbed\Petcare\xml\NnitXMLVist Load

Key	Value
MsgID	20
Description	Create Contactor
Name	Contactor
InputMsgID1	1005

CreateCc Save Send Send All

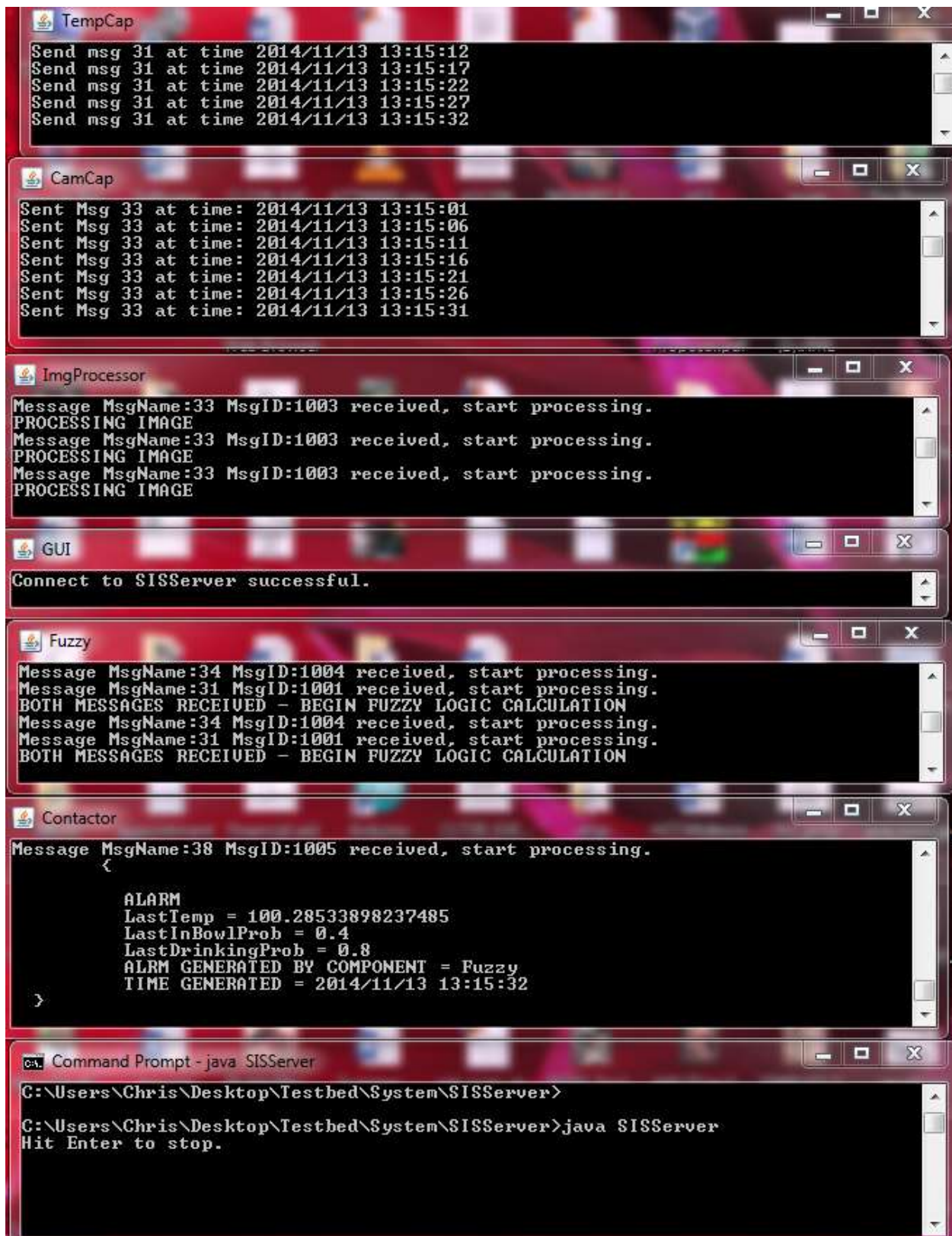
Message Received

Key	Value
-----	-------

Refresh Rate (s/Msg): 2.0 Apply Rate Save Message

Once the Send ALL button has send all the initialization messages, the system is ready to run the components. The RUN components script file runs all the components and connects them to the server.

The component ensemble has been initialized and connected to the SIS system. The system begins reading input and processing data.



Above, we see that TempCap has begun reading from the thermometer file and sending messages. The CamCap is reading from the webcam and sending notifications and sending the messages. The Img Processor receives the notice of camera input and processes it. Then, the FUZZY component receives message 31 and 34 (from tempcap and imgproc) and performs a calculation. Finally, the contactor generates an alarm if it is over threshold.

Here are some messages generated:

Key	Value
MsgID	1001
Description	Temp Value
Temperature	100.93217411769584
DateTime	2014/11/13 13:15:37

Key	value
MsgID	1003
Description	Cam Notification
FilePath	C:\ProgramData\im_tmp8851468713495860110.png
DateTime	2014/11/13 13:15:56

Key	Value
MsgID	1004
Description	Image Stats
DateTimelmg	2014/11/13 13:16:26
DateTime	2014/11/13 13:16:26
InBowlProb	0.4
DrinkingProb	0.8

Key	Value
MsgID	1005
Description	Fuzzy Logic SIG_ALARM
DateTime	2014/11/13 13:16:07
Name	Fuzzy
LastInBowlProb	0.4
LastDrinkingProb	0.8
LastTemp	100.34497850365607