SELECTIVE

CLIENT

import java.io.\*;

import java.net.\*;

public class GossipClient

{

public static void main(String[] args) throws Exception

{

Socket sock = new Socket("127.0.0.1", 3000);

// reading from keyboard (keyRead object)

InputStreamReader in=new InputStreamReader(System.in);

BufferedReader keyRead=new BufferedReader(in);

//BufferedReader keyRead = new BufferedReader(new

InputStreamReader(System.in));

// sending to SERVER (pwrite object)

OutputStream ostream = sock.getOutputStream();

PrintWriter pwrite = new PrintWriter(ostream, true);

// receiving from CLIENT ( receiveRead object)

InputStream istream = sock.getInputStream();

BufferedReader receiveRead = new BufferedReader(new

InputStreamReader(istream));

System.out.println("Start the chitchat, type and press Enter

key");

int c=1,flag=0,k=0;

while(true)

{

String receiveMessage, sendMessage;

if(k==0)

c=1;

else

c=c-k;

while(c<=4)

{

sendMessage = keyRead.readLine(); // keyboard reading

pwrite.println(sendMessage); // sending to server;

pwrite.flush();

c++;

}

if(k==0)

c=1;

else

c=c-k;

String st;

k=0;

while(c<=4)

{

st=receiveRead.readLine();

char ch=st.charAt(1);

if(ch=='N')

{

System.out.println(st);

System.out.println("Resend after all frames");

k++;

}

else

System.out.println(st);

c++;

}

}

}

}

SERVER

import java.io.\*;

import java.net.\*;

public class GossipServer

{

public static void main(String[] args) throws Exception

{

ServerSocket sersock = new ServerSocket(3000);

System.out.println("Server ready for chatting");

Socket sock = sersock.accept( );

// reading from keyboard (keyRead object)

InputStreamReader in=new InputStreamReader(System.in);

BufferedReader keyRead=new

BufferedReader(in);//BufferedReader keyRead = new

BufferedReader(new InputStreamReader(System.in));

// sending ,,,,,,,,,,to client (pwrite object)

OutputStream ostream = sock.getOutputStream();

PrintWriter pwrite = new PrintWriter(ostream, true);

// receiving from client ( receiveRead object)

InputStream istream = sock.getInputStream();

BufferedReader receiveRead = new BufferedReader(new

InputStreamReader(istream));

String s[] = new String[10];

int ch,k=0,c=1;

String sendMessage;

while(true)

{

if(k==0)

c=1;

else

c=c-k;

k=0;

for(int i=c;i<=4;i++)

{

s[i]=receiveRead.readLine();

System.out.println("Received "+ s[i]+ " Sending

Acknowledgement");

}

while(c<=4)

{

if((s[c]) != null)

{

if(s[c].charAt(1)=='L')

{

ch=Character.getNumericValue(s[c].charAt(0));

pwrite.println((ch)+"NAK");

k++;

}

else

{

ch=Character.getNumericValue(s[c].charAt(0));

pwrite.println((ch+1)+"ACK");

}

}

c++;

}

pwrite.flush();

}

}

}