Client:

**import** java.io.\*;

**import** java.net.\*;

**import** java.awt.\*;

**import** java.awt.event.\*;

**import** javax.swing.\*;

**import** java.util.\*;

**import** java.io.\*;

**public** **class** EchoClient **extends** JFrame **implements** ActionListener{//7分

**private** JTextArea textArea;

**private** **final** **static** String ***DELIM*** = "\t";

**private** JButton sentButton;

**private** JTextField numberField;

Socket echoSocket = **null**;

PrintWriter out = **null**;

BufferedReader in = **null**;

**public** EchoClient(){

**super**("Product System ") ;

JLabel l = **null**;

Container contentPane = getContentPane();

l = **new** JLabel("Please Input the number of lines string to get from server:");

contentPane.add(l);

//l.setAlignmentX(0.5f);

contentPane.add(l);

JPanel panel=**new** JPanel();

l = **new** JLabel("Please Input the number of string lines to get from server:");

panel.add(l);

numberField=**new** JTextField("", 10);

panel.add(numberField);

sentButton = **new** JButton("send to server");

panel.add(numberField);

panel.add(sentButton);

contentPane.add(panel,BorderLayout.***NORTH***);

JPanel panel1=**new** JPanel();

textArea = **new** JTextArea();

JScrollPane topScrollPane = **new** JScrollPane(textArea);

Dimension preferredSize = **new** Dimension(200, 300);

topScrollPane.setPreferredSize(preferredSize);

contentPane.add(topScrollPane, BorderLayout.***CENTER***);

sentButton.addActionListener(**this**);//2分

}

**public** **void** actionPerformed(ActionEvent e) {//

String strNumber,strLines;

**int** number;

**if**(echoSocket==**null**) { //2

**try** {

echoSocket = **new** Socket("127.0.0.1", 4448);

out = **new** PrintWriter(echoSocket.getOutputStream(), **true**);

in = **new** BufferedReader(**new** InputStreamReader(

echoSocket.getInputStream()));

} **catch** (UnknownHostException ef) {

System.***err***.println("Don't know about host: taranis.");

System.*exit*(1);

} **catch** (IOException ef) {

System.***err***.println("Couldn't get I/O for "

+ "the connection to: taranis.");

System.*exit*(1);

}

}

strNumber=numberField.getText();//得到数据发出去5

**try** {

number=Integer.*parseInt*(strNumber);

number=Integer.*parseInt*(numberField.getText());

**if**(number<=0) {

textArea.setText("please input number greater than 0");

}**else** {

out.println(strNumber);

strLines = in.readLine();//接收数据显示4

// System.out.println(strLines);

textArea.append("get "+strNumber+" lines from server:\n"+ strLines+'\n');

**if** (strLines.contains("No more sentences")) {

out.close();

in.close();

echoSocket.close();

textArea.append("can not take sentences anymore");

}

}

} **catch** (NumberFormatException nfe) {

System.***out***.println("Input data error" + strNumber);

} **catch** (IOException nfe) {

System.***err***.println("Couldn't get I/O for "

+ "the connection to: taranis.");

System.*exit*(1);

}

}

**public** **static** **void** main(String[] args) **throws** IOException {//2

JFrame frame = **new** EchoClient();

frame.setDefaultCloseOperation(JFrame.***EXIT\_ON\_CLOSE***);

frame.pack();

frame.setVisible(**true**);

}

}

**Server**

**import** java.net.\*;

**import** java.io.\*;

**public** **class** EchoServer {

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

ServerSocket serverSocket = **null**;

PrintWriter out = **null**;

BufferedReader fileIn = **null**;

BufferedReader in = **null**;

**try** {

serverSocket = **new** ServerSocket(4448);//2分

System.***out***.println("wait for client request\n");

} **catch** (IOException e) {

System.***err***.println("Could not listen on port: 4448.");

System.*exit*(1);

}

Socket clientSocket = **null**;

**try** {

clientSocket = serverSocket.accept();//3分

out = **new** PrintWriter(clientSocket.getOutputStream(), **true**);

in = **new** BufferedReader(**new** InputStreamReader(clientSocket.getInputStream()));

} **catch** (IOException e) {

System.***err***.println("Accept failed.");

System.*exit*(1);

}

**try** {

fileIn = **new** BufferedReader(**new** FileReader("one-liners.txt"));//2分

} **catch** (FileNotFoundException e) {

System.***err***.println("Could not open quote file. Serving time instead.");

}

String fromUser;

String lines="";

**int** number=0;

String line;

**while** (**true**) {//3分

String s="kkk";

**try** {

s=in.readLine();

System.***out***.println(s);

number=Integer.*parseInt*(s);

} **catch** (NumberFormatException nfe) {

System.***out***.println("data error"+" "+s);

System.*exit*(1);

}

line="";

lines="";

**for** (**int** i = 0; i < number; i++) { //5分

line= *getNextQuote*(fileIn);

**if**(line.contains("No more sentences")) {

lines=lines+line+" ## ";

**break**;

}

lines=lines+line+" ## ";

//lines=lines+line;

}

System.***out***.println(lines);

out.println(lines);

}

/\*

out.close();

in.close();

fileIn.close();

clientSocket.close();

serverSocket.close();

\*/

}

**static** String getNextQuote(BufferedReader fileIn ) { //5分

String returnValue = **null**;

**try** {

**if** ((returnValue = fileIn.readLine()) == **null**) {

fileIn.close();

returnValue = "No more sentences ";

}

} **catch** (IOException e) {

returnValue = "IOException occurred in server.";

}

**return** returnValue;

}

}