Client

import java.net.\*;

import java.io.\*;

import java.util.\*;

class Client {

public static void main(String[] args) {

try {

int stop=1;

Socket s = new Socket("localhost", 2000);

DataOutputStream dout = new DataOutputStream(s.getOutputStream());

DataInputStream dis = new DataInputStream(s.getInputStream());

while(stop==1) {

System.out.println("Enter the message to send");

Scanner sc = new Scanner(System.in);

String smsg = sc.next();

dout.writeUTF(smsg);

dout.flush();

String msg = dis.readUTF();

System.out.println("Message received from server: " + msg);

System.out.println("DO you want to stop?");

System.out.println("Then enter 0 else enter 1");

int st=sc.nextInt();

if(st==0){

stop=0;

}

else {

stop=1;

}

}

dout.close();

s.close();

} catch (Exception e) {

System.out.println("Exception " + e);

}

}

}

Server

import java.io.DataInputStream;

import java.io.DataOutputStream;

import java.net.ServerSocket;

import java.net.Socket;

import java.util.Scanner;

class Server {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

try {

ServerSocket ss = new ServerSocket(2000);

Socket s1 = ss.accept();

DataInputStream dis = new DataInputStream(s1.getInputStream());

DataOutputStream dout = new DataOutputStream(s1.getOutputStream());

int stop = 1;

while (stop == 1) {

String msg = dis.readUTF();

System.out.println("Message received from client: " + msg);

System.out.println("Enter message");

String smsg = sc.next();

dout.writeUTF(smsg);

dout.flush();

System.out.println("DO you want to stop?");

System.out.println("Then enter 0 else enter 1");

int st = sc.nextInt();

if (st == 0) {

stop = 0;

} else {

stop = 1;

}

}

dout.close();

ss.close();

} catch (Exception e) {

System.out.println("Exception " + e);

}

}

}

Python

client

*import* socket  
s = socket.socket()  
host = socket.gethostname()  
port = 8080  
s.connect((host, port))  
*while True*:  
 str = *input*("S: ")  
 s.send(str.encode())  
 *if*(str == "Bye" *or* str == "bye"):  
 *break  
 print*( "N:",s.recv(1024).decode())  
s.close()

server

*import* socket  
  
s = socket.socket()  
port = 8080  
s.bind((socket.gethostname(), port))  
s.listen(5)  
c, addr = s.accept()  
*print* ("Socket Up and running with a connection from",addr)  
*while True*:  
 rcvdData = c.recv(1024).decode()  
 *print* ("S:",rcvdData)  
 sendData = *input*("N: ")  
 c.send(sendData.encode())  
 *if*(sendData == "Bye" *or* sendData == "bye"):  
 *break*c.close()

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