.Programs using UDP Sockets (like simple DNS)

// UDP DNS Server -- udpdnsserver.java

import java.io.\*;

import java.net.\*;

public class udpdnsserver

{ private static int indexOf(String[] array, String str)

{ str = str.trim(); for (int i=0; i < array.length; i++)

{ if (array[i].equals(str)) return i;

}

return -1;

}

public static void main(String arg[])throws IOException

{ String[] hosts = {"yahoo.com", "gmail.com","cricinfo.com", "facebook.com"};

String[] ip = {"68.180.206.184", "209.85.148.19","80.168.92.140", "69.63.189.16"};

System.out.println("Press Ctrl + C to Quit");

while (true)

{ DatagramSocket serversocket=new DatagramSocket(1362);

byte[] senddata = new byte[1021];

byte[] receivedata = new byte[1021];

DatagramPacket recvpack = new DatagramPacket(receivedata, receivedata.length);

serversocket.receive(recvpack); String sen = new String(recvpack.getData());

InetAddress ipaddress = recvpack.getAddress();

int port = recvpack.getPort();

String capsent; System.out.println("Request for host " + sen);

if(indexOf (hosts, sen) != -1)

capsent = ip[indexOf (hosts, sen)];

else capsent = "Host Not Found";

senddata = capsent.getBytes();

DatagramPacket pack = new DatagramPacket(senddata, senddata.length,ipaddress,port);

serversocket.send(pack);

serversocket.close(); } } }

//UDP DNS Client -- udpdnsclient.java

import java.io.\*;

import java.net.\*;

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

{ BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

DatagramSocket clientsocket = new DatagramSocket(); InetAddress ipaddress;

if (args.length == 0)

ipaddress = InetAddress.getLocalHost();

else ipaddress = InetAddress.getByName(args[0]);

byte[] senddata = new byte[1024]; byte[] receivedata = new byte[1024];

int portaddr = 1362; System.out.print("Enter the hostname : ");

String sentence = br.readLine(); Senddata = sentence.getBytes(); DatagramPacket pack = new DatagramPacket(senddata,senddata.length, ipaddress,portaddr);

clientsocket.send(pack);