arp server

import java.io.\*;

import java.net.\*;

import java.util.\*;

class Serverap { public static void main(String args[])

{

try

{

ServerSocket obj=new ServerSocket(5604);

Socket obj1=obj.accept();

while(true)

{

DataInputStream din=new DataInputStream(obj1.getInputStream());

DataOutputStream dout=new DataOutputStream(obj1.getOutputStream());

String str=din.readLine();

String ip[]={"165.165.80.80","165.165.79.1"};

String mac[]={"6A:08:AA:C2","8A:BC:E3:FA"};

for(int i=0;i<ip.length;i++)

{

if(str.equals(ip[i]))

{

dout.writeBytes(mac[i]+'\n'); break;

}

} obj.close();

}

}

catch(Exception e)

{

System.out.println(e);

}

}

}

Client

import java.io.\*;

import java.net.\*;

import java.util.\*;

class Clientarp { public static void main(String args[])

{

try {

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

Socket clsct=new Socket("127.0.0.1",5604);

DataInputStream din=new DataInputStream(clsct.getInputStream());

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

System.out.println("Enter the Logical address(IP):");

String str1=in.readLine();

dout.writeBytes(str1+'\n');

String str=din.readLine();

System.out.println("The Physical Address is: "+str);

clsct.close();

}

catch (Exception e)

{

System.out.println(e);

}

}

}

RARPserver

import java.io.\*;

import java.net.\*;

import java.util.\*;

class Serverrarp{public static void main(String args[])

{

try

{

DatagramSocket server=new DatagramSocket(1309);

while(true){byte[] sendbyte=new byte[1024];

byte[] receivebyte=new byte[1024];

DatagramPacket receiver=new DatagramPacket(receivebyte,receivebyte.length);

server.receive(receiver);

String str=new String(receiver.getData());

String s=str.trim();

//System.out.println(s);

InetAddress addr=receiver.getAddress();

int port=receiver.getPort();

String ip[]={"165.165.80.80","165.165.79.1"};

String mac[]={"6A:08:AA:C2","8A:BC:E3:FA"};

for(int i=0;i<ip.length;i++)

{

if(s.equals(mac[i])){sendbyte=ip[i].getBytes();

DatagramPacket sender=new DatagramPacket(sendbyte,sendbyte.length,addr,port);

server.send(sender);

break;

}

}

break;

}

}

catch(Exception e)

{System.out.println(e);

}

}

}

RARP client

import java.io.\*;

import java.net.\*;

import java.util.\*;

class Clientrarp{

public static void main(String args[])

{

try{DatagramSocket client=new DatagramSocket();

InetAddress addr=InetAddress.getByName("127.0.0.1");

byte[] sendbyte=new byte[1024];byte[] receivebyte=new byte[1024];

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

System.out.println("Enter the Physical address (MAC):");

String str=in.readLine();

sendbyte=str.getBytes();

DatagramPacket sender=new DatagramPacket(sendbyte,sendbyte.length,addr,1309);

client.send(sender);

DatagramPacket receiver=new DatagramPacket(receivebyte,receivebyte.length);

client.receive(receiver);

String s=new String(receiver.getData());

System.out.println("The Logical Address is(IP): "+s.trim());

client.close();

}

catch(Exception e)

{

System.out.println(e);

}

}

}