ARP SERVER CLIENT

**SERVER:**

import java.net.\*;

import java.util.\*;

import java.io.\*;

class ARPServer{

static String ARPtable[][]=new String[10][10];

static int pointer;

static void assign(){

ARPtable[0][0]="192.168.1.9";

ARPtable[0][1]="12:23:44:AC:12:22";

ARPtable[1][0]="192.168.1.8";

ARPtable[1][1]="12:23:34:AC:12:22";

ARPtable[2][0]="192.168.1.7";

ARPtable[2][1]="12:23:48:AC:12:22";

ARPtable[3][0]="192.168.1.3";

ARPtable[3][1]="12:23:44:A4:12:22";

pointer =4;}

static String find(String x)

{

int i=0;

//System.out.println(pointer);

for ( i=0;i<pointer;i++)

{

System.out.println("checking "+ARPtable[i][0]);

if(ARPtable[i][0].equals(x))

{

return ARPtable[i][1];

}

}

return null;

}

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

{

ServerSocket sersock=new ServerSocket(3000);

Socket sock=sersock.accept();

InputStream in=sock.getInputStream();

OutputStream os=sock.getOutputStream();

PrintWriter pw=new PrintWriter(os,true);

BufferedReader bread=new BufferedReader(new InputStreamReader(in));

String rmsg;

assign();

while(true)

{

if((rmsg=bread.readLine())!=null)

{

System.out.println(rmsg);

String d=find(rmsg);

pw.println("Mac Address is"+ d);

}

}

}

}

**CLIENT:**

import java.io.BufferedReader;

import java.io.OutputStream;

import java.io.PrintWriter;

import java.net.\*;

import java.util.\*;

import java.io.\*;

class ARPClient{

static Scanner sc=new Scanner(System.in);

ARPClient()

{

}

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

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

InputStream in=clisock.getInputStream();

OutputStream os=clisock.getOutputStream();

BufferedReader bread=new BufferedReader(new InputStreamReader(in));

PrintWriter pw=new PrintWriter(os,true);

String smsg,rmsg;

while(true)

{

System.out.println("enter ip address");

smsg=sc.next();

pw.println(smsg);

if((rmsg=bread.readLine())!=null)

{

System.out.println(rmsg);

}

}

}

}

OUTPUT

