EX.NO:4 SIMULATION OF DNS USING UDP SOCKETS

PROGRAM:

Server.java:

import java.io.\*;

import java.net.\*;

import java.util.\*;

class Server

{

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

name[]={"www.aptitudeguru.com","www.downloadcyclone.blogspot.com"};

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

if(s.equals(ip[i])) {

sendbyte=name[i].getBytes();

DatagramPacket sender=new

DatagramPacket(sendbyte,sendbyte.length,addr,port);

server.send(sender);

break;

}

else if(s.equals(name[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);

}

}

}

Client.java:

import java.io.\*;

import java.net.\*;

import java.util.\*;

class Client{

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 SERVER/DOMAIN NAME:");

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("IP address is: "+s.trim());

client.close();

}

catch(Exception e)

{

System.out.println(e);

} } }

OUTPUT:



