

Experiment No. 10

Write a program for DNS lookup. Given an IP address as input, it should return URL and vice-versa.

Program for DNS lookup:

```
/import java.net.*;
import java.util.*;

public class IPDemo
{
    public static void main(String[] args){
        String host;
        Scanner ch = new Scanner(System.in);
        System.out.print("1.Enter Host Name \n2.Enter IP address \nChoice=");
        int choice = ch.nextInt();
        if(choice==1)
        {
            Scanner input = new Scanner(System.in);
            System.out.print("\n Enter host name: ");
            host = input.nextLine();
            try {
                InetAddress address = InetAddress.getByName(host);
                System.out.println("IP address: " + address.getHostAddress());
                System.out.println("Host name : " + address.getHostName());
                System.out.println("Host name and IP address: " + address.toString());
            }
            catch (UnknownHostException ex) {
                System.out.println("Could not find " + host);
            }
        }
        else
        {
            Scanner input = new Scanner(System.in);
            System.out.print("\n Enter IP address: ");
            host = input.nextLine();
            try {
                InetAddress address = InetAddress.getByName(host);
                System.out.println("Host name : " + address.getHostName());
                System.out.println("IP address: " + address.getHostAddress());
                System.out.println("Host name and IP address: " + address.toString());
            }
            catch (UnknownHostException ex) {
                System.out.println("Could not find " + host);
            }
        }
    }
}
```

/*OUTPUT

iotlab@iotlab-Veriton-M200-B360:~\$ javac IPDemo.java

iotlab@iotlab-Veriton-M200-B360:~\$ java IPDemo

1.Enter Host Name

2.Enter IP address

Choice=1

Enter host name: www.google.com

IP address: 172.217.160.196

Host name : www.google.com

Host name and IP address: www.google.com/172.217.160.196
iotlab@iotlab-Veriton-M200-B360:~\$ java IPDemo
1.Enter Host Name
2.Enter IP address
Choice=2

Enter IP address: 8.8.8.8
Host name : dns.google
IP address: 8.8.8.8
Host name and IP address: dns.google/8.8.8.8
iotlab@iotlab-Veriton-M200-B360:~\$
*/