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

/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

:~$ javac IPDemo.java

:~$ 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

:~$ 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

:~$

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