**CNSL Lab Assignment 10**

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**Write a program for DNS lookup. Given an IP address as input, it should return URL and viceversa.**

**Program:**

**import** java**.**net**.\*;**

**import** java**.**util**.\*;**

public class DnsLookup **{**

public static void main**(**String**[]** args**)** **{**

String hostInput**;**

Scanner scanner **=** **new** Scanner**(**System**.**in**);**

System**.**out**.**print**(**"1. Enter Host Name \n2. Enter IP Address \nChoice = "**);**

int userChoice **=** scanner**.**nextInt**();**

**if** **(**userChoice **==** 1**)** **{**

Scanner hostScanner **=** **new** Scanner**(**System**.**in**);**

System**.**out**.**print**(**"\nEnter Host Name: "**);**

hostInput **=** hostScanner**.**nextLine**();**

**try** **{**

InetAddress inetAddress **=** InetAddress**.**getByName**(**hostInput**);**

System**.**out**.**println**(**"IP Address: " **+** inetAddress**.**getHostAddress**());**

System**.**out**.**println**(**"Host Name : " **+** inetAddress**.**getHostName**());**

System**.**out**.**println**(**"Host Name and IP Address: " **+** inetAddress**.**toString**());**

**}** **catch** **(**UnknownHostException ex**)** **{**

System**.**out**.**println**(**"Could not find host: " **+** hostInput**);**

**}**

**}** **else** **if** **(**userChoice **==** 2**)** **{**

Scanner ipScanner **=** **new** Scanner**(**System**.**in**);**

System**.**out**.**print**(**"\nEnter IP Address: "**);**

hostInput **=** ipScanner**.**nextLine**();**

**try** **{**

InetAddress inetAddress **=** InetAddress**.**getByName**(**hostInput**);**

System**.**out**.**println**(**"Host Name: " **+** inetAddress**.**getHostName**());**

System**.**out**.**println**(**"IP Address: " **+** inetAddress**.**getHostAddress**());**

System**.**out**.**println**(**"Host Name and IP Address: " **+** inetAddress**.**toString**());**

**}** **catch** **(**UnknownHostException ex**)** **{**

System**.**out**.**println**(**"Could not find IP address: " **+** hostInput**);**

**}**

**}** **else** **{**

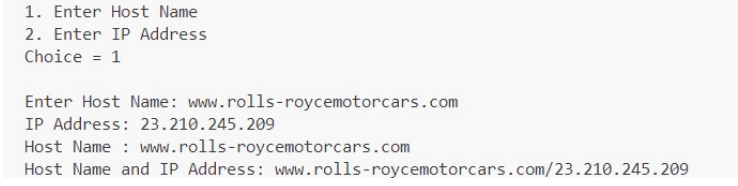
System**.**out**.**println**(**"Invalid Choice. Please select either 1 or 2."**);**

**}**

**}**

**}**

**Output:**

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