**DNSLookup.java :-**

import java.net.\*;

import java.util.Scanner;

public class DNSLookup

{

public void getIPfromURL(String str)

{

try

{

InetAddress in=InetAddress.getByName(new URL(str).getHost());

System.out.println("IP : "+in.getHostAddress());

}

catch(Exception e){System.out.println(e.getMessage());}

}

public void getHostnamefromIP(String str)

{

try

{

InetAddress inet=InetAddress.getByName(str);

String hostname=inet.getHostName();

String canonicalHostname=inet.getCanonicalHostName();

System.out.println("Hostname : "+hostname);

System.out.println("Canonical Hostname : "+canonicalHostname);

}

catch(Exception e){System.out.println(e.getMessage());} }

public static void main(String[] args)

{

int ch;

String str;

Scanner s=new Scanner(System.in);

DNSLookup obj=new DNSLookup();

do

{

System.out.println("1. IP Address from URL\n2. Hostname from IP Address\n3. Exit\nEnter Your Choice : ");

ch=Integer.parseInt(s.nextLine());

switch(ch)

{

case 1:

System.out.println("Enter URL : ");

str=s.nextLine();

obj.getIPfromURL(str);

break;

case 2:

System.out.println("Enter IP Address : ");

str=s.nextLine();

obj.getHostnamefromIP(str);

break;

}

}

while(ch!=3);

}

}

**Output :-**

D:\CN Lab\CN Final\DNS Lookup>java DNSLookup

1. IP Address from URL

2. Hostname from IP Address

3. Exit

Enter Your Choice :

1

Enter URL :

https://www.youtube.com/

IP : 172.217.166.78

1. IP Address from URL

2. Hostname from IP Address

3. Exit

Enter Your Choice :

2

Enter IP Address :

172.217.166.78

Hostname : bom05s15-in-f14.1e100.net

Canonical Hostname : bom05s15-in-f14.1e100.net

1. IP Address from URL

2. Hostname from IP Address

3. Exit

Enter Your Choice :

3