COMPUTER NETWORKS AND SECURITY LABORATORY

Group C
Assignment No. 11

NAME   :- OJUS P. JAISWAL

ROLL NO.   :- TACO19108

YEAR AND DIV :- TE A

Ques :- Write a program for DNS Lookup. Given an IP address it should return URL and vice-versa.

Solution :-

Program :

```
package C11;

import java.net.*;
import java.util.*;
public class DNS
{
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("\nEnter 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());
```

```java
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("\nEnter 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 :

```
Console ✕  DNS.java
<terminated> C11.DNS [Java Application] C:\Program Files\Java\jdk1.8.0_151\bin\javaw.exe (Dec 9, 2021, 6:10:09 PM)
1.Enter Host Name
2.Enter IP address
Choice=1

Enter host name: facebook.com
IP address: 31.13.79.35
Host name : facebook.com
Host name and IP address: facebook.com/31.13.79.35
```

```
Console ✕  DNS.java
<terminated> C11.DNS [Java Application] C:\Program Files\Java\jdk1.8.0_151\bin\javaw.exe (Dec 9, 2021, 6:12:22 PM)
1.Enter Host Name
2.Enter IP address
Choice=2

Enter IP address: 31.13.79.35
Host name : edge-star-mini-shv-02-bom1.facebook.com
IP address: 31.13.79.35
Host name and IP address: edge-star-mini-shv-02-bom1.facebook.com/31.13.79.35
```