## Assignment - WIII.

Ittle: DHS DOOKUP

Problem statement !-

Given an IP address Poput, it should meteurn URL & vicevessa.

Objective 1-

- To leave the concept of DMS lookup.

- To steedy the inet address for getting respective ip address or UPL.

Outcome 2-

emplement DMS lookup for an FP address & meturen & responsive up 4. via versa

8/W 4 H/W L

64-61+05, JOK 1-8/ Python 3.8

Theory !

The domain name service resolve the names of internet sites with their underlying IP addressing adding efficiency of even scennity in the process.

- DHS Ps a hierarchical & decentralized haming system for computers, services or other resources connected to the internet or a private netiente. - It associates various information each of the participating entities - The domain name system delegates the nesponsibility of assigning domain names - DNS message formet: The DNS projectol uses too topes of DNS messages queires both have the same format. Each message consist of a headers & four sections. 1 question 3 authority (9) an dolditional space Donain vaner Danain vane an identification String that define a real of adminstration autoromy, authority or control within the Internet.

Domain varies & are formed by the rules & procedures of domain have spetern (DIAS)

Domains such as am, info, net, edu, org, mil, etc.
ex como example com.

Friet Address 1-

. Inel addirec close viprogents an JP address. An JP address: An JP address as represented by 32 bit or 128 bit unegoned number. An Protonce of and Addresses represents the IP address with the corresponding hast name

Method:
I public static Fret Address getBy Hame (
8thing host)

It referens hostName.

2) public string gethost Address ()
It returns the IP address in string

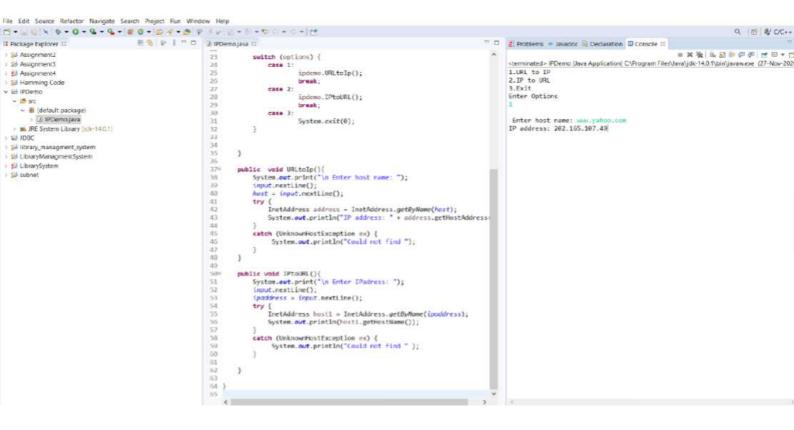
3) public string gethostName() It returns the host name, of IP DNS lookup to the process of A DNS lookup to the process of sending a quary for specific domain or ZP of getting the record that amesponds to the conclusion:

Conclusion:

We have successfully implemented the DNS lookup to also leasent the concept of domain name system.

```
import java.net.*;
import java.util. +;
public class IPDemo
      public static String host, ipaddress;
      public static Scanner input;
      public IPDemo(){
             host = new String();
             ipaddress = new String();
      3
      public static void main(String[] args)[
             IPDemo ipdemo = new IPDemo();
             input = new Scanner(System.in);
             int options;
             System.out.println("1.URL to IP");
             System.out.println("2.IP to URL");
             System.out.println("3.Exit");
             System.out.println("Enter Options");
             options = input.nextInt();
            switch (options) {
                    case 1:
                                 ipdemo.URLtoIp();
                                 break;
                    case 2:
                                 ipdemo.IPtoURL();
                                 break;
                    case 3:
                                System.exit(0);
            )
      3
      public void URLtoIp(){
             System.out.print("\n Enter host name: ");
             imput.nextLine();
             host = input.nextLine();
             try {
                    InetAddress address = InetAddress.getByName(host);
                    System.out.println("IP address: " + address.getHostAddress());
             catch (UnknownHostException ex) {
                  System.out.println("Could not find ");
            3
      13
      public void IPtoURL(){
             System.out.print("\n Enter IPadress: ");
             input.nextLine();
             ipaddress = input.nextLine();
             try {
                    InetAddress host1 = InetAddress.getByName(ipaddress);
                    System.out.println(host1.getHostName());
            3
            catch (UnknownHostException ex) {
                 System.out.println("Could not find " );
            7
     33
```

3



```
Q # # C/C++
# Package Explorer ☆ E 😢 🕨 🖁 ¨ □ 🗓 IPDemojava ☆
                                                                                                                                                             To Problems . Javadoc - Declaration - D Console 🗵
> 🚧 Assignment2
                                                                                                                                                                                                                          ■ X 및 | 1 2 2 2 2 2 2 1 1 2 2 4 1
⇒ 😂 Assignment3
                                                                                                                                                                    <terminated> IPDemo [Java Application] C\Program Files\Java\jdk-14.0.1\bin\javaw.exe (27-Nov-202)
                                                                                     case 1:
                                                                                                                                                                   1.URL to IP
2.IP to URL
3.Exit
> 😝 Assignment4
                                                                 ipdeno.URLtoIp();
                                                                                               break;
> 34 Hamming Code
~ ₩ IPDemo
                                                                                     case 2:
                                                                                               ipdeno.IPtoURL();
                                                                                                                                                                    Enter Options
  v 🗷 src
                                                                                               break;
      🕶 🜐 (default package)
                                                                                     case 3:
                                                                                                                                                                    Enter IPadress: 202.165.107.49
media-router-fp73.prod.media.vip.sg3.yahoo.com
         ⇒ ② IPDemojava
                                                                                               System.exit(0);
   > Marc System Library (jdk-14.0.1)
⇒ ₩ JDBC
> 13 library_managment_system
> 🔀 LibraryManagmentSystem
> 📂 LibrarySystem
                                                                           public void URLtoIp(){
   System.out.print("\n Enter host name: ");
   input.nextLine();
   host = input.nextLine();
> 🐸 subnet
                                                                                try {
    InetAddress address = InetAddress.getByName(host);
    System.out.println("IP address: " + address.getHostAddress:
                                                                                 catch (UnknownHostException ex) {
   System.out.println("Could not find ");
                                                                            }
                                                                            public void IPtoURL(){
    System.out.print("\n Enter IPadress: ");
                                                                                 input.nextLine();
ipaddress = input.nextLine();
                                                                                 try {
                                                                                     InetAddress host1 = InetAddress.getByName(ipaddress);
System.out.println(host1.getHostName());
                                                                                catch (UnknownHostException ex) {
    System.out.println("Could not find " );
                                                                       <
```

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