## **Title: Lab Assignment on Unit VI: (Use PYTHON)**

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

## **PROGRAM**

```
import socket
print ('\nWelcome to DNS to IP Address')
URL=input('Enter URL : ')
addr1 = socket.gethostbyname(URL) #addr2 =
socket.gethostbyname('yahoo.com')
#addr3 = socket.gethostbyname('amazon.com')
#addr4 = socket.gethostbyname('gmail.com')
#addr5 = socket.gethostbyname('facebook.com')
print("IP address = " + addr1) print
('\n\nWelCome IP address to DNS')
IP=input('Enter IP Address : ')
addr6=socket.gethostbyaddr(IP)
print("URL address = " , addr6)
#-----OUTPUT-----
Python 3.8.5 (tags/v3.8.5:580fbb0, Jul 20 2020, 15:43:08) [MSC v.1926
32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more
information.
>>>
==== RESTART:
C:\Users\dell\AppData\Local\Programs\Python\Python38-32\DNS.py ===
Welcome to DNS to IP Address
Enter URL : www.google.com
IP address = 142.250.67.164
WelCome IP address to DNS
Enter IP Address : 142.250.67.164
URL address = ('bom12s07-in-f4.1e100.net', [], ['142.250.67.164'])
>>>
==== RESTART:
C:\Users\dell\AppData\Local\Programs\Python\Python38-32\DNS.py ===
```

```
Welcome to DNS to IP Address
Enter URL : Localhost
IP address = 127.0.0.1
WelCome IP address to DNS
Enter IP Address : 127.0.0.1
URL address = ('DESKTOP-N4TPPR1', [], ['127.0.0.1'])
>>>
==== RESTART:
C:\Users\dell\AppData\Local\Programs\Python\Python38-32\DNS.py ===
Welcome to DNS to IP Address
Enter URL : facebook.com
IP address = 157.240.16.35
WelCome IP address to DNS
Enter IP Address : 157.240.16.35
URL address = ('edge-star-mini-shv-01-bom1.facebook.com', [],
['157.240.16.35'])
>>>
```

	[automate]
	CIASSMATE
	DNS pytuon   Java
81	What is Dres!
HAS	The Domain Plane System (DNS) is the phone clirections of the internet human can access information online through alongon name like www. google.com facebooknown etc was browser interact through internet preprotes (IP) address DNS translates domain name to IP address So that
	Isrowser can lead interned tespuro.
\text{\tint{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex	Inhat in a fesolver?  A DNS tesolver in a local server that stores  a central database of DNS name servers I manage  Drus tequest for all ten cleant on your network  with DNS tesolver your compater closes not need  to Store addresses for multiple online  name server a process which is difficult to
	manage effecteury.
Q3.	It english as the process of a DNS client making repeated DNS queries to different DNS servers of for name resolution.
1	If DNS server dozent know two answer answer to the DNS reference to another lower level DNS server also.

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