**PRACTICAL SUBMISSION RECORD- A.Y. 2024-25**

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| **Class: FY MCA**  **Semester: II** | **Div: A** | **Course Code: MCA10552**  **Course Name: Laboratory Practice - II** | | **Batch: F2** |
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| **CO No: CO517C.5** | | | **Assignment No: 7** |  |

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

**Code:**

import socket

def dns\_lookup(input\_value):

try:

if '.' in input\_value: # Check if it's an IP address

print("Hostname:", socket.gethostbyaddr(input\_value)[0])

else: # If it's a URL, resolve it to IP

print("IP Address:", socket.gethostbyname(input\_value))

except socket.herror:

print("Invalid input or unreachable network.")

# Input IP or URL

input\_value = input("Enter IP address or URL: ")

dns\_lookup(input\_value)

**Output:**

**Input**: google.com

Enter IP address or URL: google.com

IP Address: 142.250.183.78

**Input**: 142.250.183.78

Enter IP address or URL: 142.250.183.78

Hostname: google.com