

Assignment-C10 (DNS Lookup) – Output

Code

```
import socket
def dns_lookup():
    choice = input("Choose an operation:\n1 -> lookup a URL\n2 -> lookup an IP address\nEnter choice (1/2):\t")
    if choice == '1':
        url = input("Enter the URL (e.g. kska.io): ")
        try:
            ip_address = socket.gethostbyname(url)
            print(f"The IP address for {url} is: {ip_address}")
        except socket.gaierror:
            print("Error: Unable to resolve the URL.")
    elif choice == '2':
        ip_address = input("Enter the IP address (e.g. 93.184.216.34): ")
        try:
            url = socket.gethostbyaddr(ip_address)[0]
            print(f"The URL for {ip_address} is: {url}")
        except socket.herror:
            print("Error: Unable to resolve the IP address.")
    else:
        print("Invalid choice. Please enter 1 or 2.")
if __name__ == "__main__":
    dns_lookup()
```

Output

```
$ python3 Code-C10.py
Choose an operation:
1 -> lookup a URL
2 -> lookup an IP address
Enter choice (1/2):    1
Enter the URL (e.g. kska.io): kska.io
The IP address for kska.io is: 104.21.11.198
[overnion - Codes (/run/media/overnion/persistence/Files
$ python3 Code-C10.py
Choose an operation:
1 -> lookup a URL
2 -> lookup an IP address
Enter choice (1/2):    2
Enter the IP address (e.g. 93.184.216.34): 185.70.42.45
The URL for 185.70.42.45 is: 185-70-42-45.protonmail.ch
```