Program to translate a Domain or hostname to its IP address and vice versa

▼ 1. Importing Socket Dependencies and Packages

```
import socket
```

▼ 2. Function to find Domain name from IP address

gethostbyaddr() Given an IP address the function socket.gethostbyaddr() returns a tuple containing

Host Name, Alias list for the IP address if any, IP address of the host...

```
def get_domain():
    ip = input('Enter the IP Address : ')
    try:
        # this will get host name by domain
        domain = socket.gethostbyaddr(ip)
        print('The Domain IP address is : ', domain[0])
    except socket.error as err:
        print("Invalid IP Address")
```

▼ 3. Function to find IP address from Domain name

gethostbyname() returns the domain name according to ip address

```
def get_ip():
    domain = input('Enter Domain Name : ')
    try:
        ip = socket.gethostbyname(str(domain))
        print("IP Address : ", ip)
    except socket.gaierror as err:
        print("Invalid Domain Name -> Error : ", err)
```

▼ 4. Execution of Functions

```
get_ip()
get_domain()

Enter Domain Name : pythonanywhere.com
IP Address : 35.173.69.207
```

```
Enter the IP Address: 35.173.69.207
The Domain IP address is: ('ec2-35-173-69-207.compute-1.amazonaws.com', [], ['35.17 Enter Domain Name: 35.173.69.207
IP Address: 35.173.69.207
Enter the IP Address: 35.173.69.207
The Domain IP address is: ('ec2-35-173-69-207.compute-1.amazonaws.com', [], ['35.17
```

▼ 5. Screenshot

