ASSIGNMENT 3 GROUP NO-33(180101065,180101066) Question-4

README

1) We have included a makefile.

Running make command compiles all the three files

dns server.c, client.c, proxy server.c

- 2) Run the dns executable by running "./dns"
- 3) Run the proxy executable by running "./proxy <port>" (Eg. ./proxy 8080)
- 4) You can see that the connection between dns and proxy is established in dns terminal window
- 5) Run the client executable by running "./client <ip> <port>" (Eg. ./client 127.0.0.1 8080)
- 6) The request for domain/ip

command::: <type><single space><domain/ip>, Eg. 1 www.google.com

Key points

1.)Port 8080

2.)ip 127.0.0.1

3.) Cache size 2

Some Screenshots have been taken for the reference

1) When connection is established

2) While making requests from client

ASSIGNMENT 3 GROUP NO-33(180101065,180101066) Question-4

3). When there is no entry found in database(Type 4).

```
mandloi@mandloi-VirtualBox: ~/Desktop/NETWORKS
                                                          a a 6
File Edit View Search Terminal Help
RESPONSE TYPE : 3
RESPONSE MESSAGE : ENTRY EXIST IN DATABASE
THE CORRESPONDING DOMAIN IS : www.iitg.ernet.in
2 8.8.8.8
^C
mandloi@mandloi-VirtualBox:~/Desktop/NETWORKS$ ./client 127.0.0.1 8080
Please Give Input format as <TYPE NUM> <IP/DOMAIN NAME>
1 hdhd.com
RESPONSE TYPE: 4
The domain doesn't exist in the database.
*********************
REQUEST INFO ::::
                 REQUEST_TYPE : 1,
                                   MESSAGE : hdhd.com
RESPONSE_INFO ::::
                 RESPONSE_TYPE : 4,
                                   MESSAGE: The domain doesn't ex
ist in the database.
*******************
```

4) Displaying that the entry was not found in cache

```
000
THE CORRESPONDING DOMAIN IS : www.iitg.ernet.in
1 instagram.com
RESPONSE TYPE : 3
RESPONSE MESSAGE : ENTRY EXIST IN DATABASE
THE CORRESPONDING IP IS : 1.1.1.10
2 2.0.2.1
RESPONSE TYPE : 3
RESPONSE MESSAGE : ENTRY EXIST IN DATABASE
THE CORRESPONDING DOMAIN IS : www.iitg.ernet.in
2 8.8.8.8
mandloi@mandloi-VirtualBox: ~/Desktop/NETWORKS
                                                                         File Edit View Search Terminal Help
mandloi@mandloi-VirtualBox:~/Desktop/NETWORKS$ ./proxy 8080
*******
REQUEST :
                TYPE-2||
                               MESSAGE-8.8.8.8
REQUEST MESSAGE : 2 8.8.8.8
ENTRY NOT FOUND IN CACHE
CACHE UPDATED
RESPONSE MESSAGE : 3 yahoo.com
```