Vanshika Shah
DNS Programming Assignment

Client:

```
Vanshikas-MacBook-Pro:HW3 vanshikashah$ python3 dnsclient.py 127.0.0.1 9999 host1.student.test
Sending Request to 127.0.0.1, 9999:
Message ID: 74
Question Length: 23 bytes
Answer Length: 0 bytes
Question: host1.student.test A IN

Received Response from 127.0.0.1, 9999:
Return Code: 0 (No errors)
Message ID: 74
Question Length: 23 bytes
Answer Length: 41 bytes
Question: host1.student.test A IN
Answer: host1.student.test A IN 3600 192.168.10.1
```

```
Vanshikas-MacBook-Pro:HW3 vanshikashah$ python3 dnsclient.py 127.0.0.1 9999 host-not-exist.student.test
Sending Request to 127.0.0.1, 9999:
Message ID: 40
Question Length: 32 bytes
Answer Length: 0 bytes
Question: host-not-exist.student.test A IN

Received Response from 127.0.0.1, 9999:
Return Code: 1 (Name does not exist)
Message ID: 40
Question Length: 32 bytes
Answer Length: 0 bytes
Question: host-not-exist.student.test A IN
Vanshikas-MacBook-Pro:HW3 vanshikashah$
```

```
Vanshikas-MacBook-Pro:HW3 vanshikashah$ python3 dnsclient.py 127.0.0.1 9999 host3.student.test
Sending Request to 127.0.0.1, 9999:
Message ID: 83
Question Length: 23 bytes
Answer Length: 0 bytes
Question: host3.student.test A IN

Request timed out...
Sending Request to 127.0.0.1, 9999:
Request timed out...
Sending Request to 127.0.0.1, 9999:
Request timed out... Exiting Program.
Vanshikas-MacBook-Pro:HW3 vanshikashah$
```

Server:

```
SocketrgaierrorA [Errno 8] nodename nor servname provided, or not known
Vanshikas-MacBook-Pro:HW3 vanshikashah$ python3 dnsserver.py 127.0.0.1 9999
```