

Mark Galesi

Assignment 3 DNS

Test Case 1: Name found

```
mark@PC-name:/mnt/c/Users/Mark/Desktop/CS356/assignment 3$ python3 client.py 127.0.0.1 12000 host1.student.test
Sending Request to 127.0.0.1, 12000:
Message ID:      56
Question Length: 23bytes
Answer Length:0bytes
Question:host1.student.test A IN
```

```
Recieved Response from 127.0.0.1, 12000:
Return Code: 0
Message ID:      56
Question Length: 23 bytes
Answer Length:42 bytes
Question:host1.student.test A IN
Answer: host1.student.test A IN 3600 192.168.10.1
```

```
mark@PC-name:/mnt/c/Users/Mark/Desktop/CS356/assignment 3$
```

Test Case 2: Name not found

```
mark@PC-name:/mnt/c/Users/Mark/Desktop/CS356/assignment 3$ python3 client.py 127.0.0.1 12000 host5.student.test
Sending Request to 127.0.0.1, 12000:
Message ID:      63
Question Length: 23bytes
Answer Length:0bytes
Question:host5.student.test A IN
```

```
Recieved Response from 127.0.0.1, 12000:
Return Code: 1
Message ID:      63
Question Length: 23 bytes
Answer Length:0 bytes
Question:host5.student.test A IN
mark@PC-name:/mnt/c/Users/Mark/Desktop/CS356/assignment 3$
```

Test Case 3: No response from server

```
mark@PC-name:/mnt/c/Users/Mark/Desktop/CS356/assignment 3$ python3 client.py 127.0.0.1 12000 host1.student.test
```

```
Sending Request to 127.0.0.1, 12000:
```

```
Message ID:      88
```

```
Question Length: 23bytes
```

```
Answer Length:0bytes
```

```
Question:host1.student.test A IN
```

```
Request timed out ...
```

```
Sending Request to 127.0.0.1, 12000:
```

```
Request timed out ...
```

```
Sending Request to 127.0.0.1, 12000:
```

```
Request timed out ...
```

```
Request timed out ... Exiting Program
```

```
mark@PC-name:/mnt/c/Users/Mark/Desktop/CS356/assignment 3$
```

Server output:

```
mark@PC-name:/mnt/c/Users/Mark/Desktop/Cs356/assignment 3$ python3 server.py 127.0.0.1 12000
```

```
The server is ready to receive on port: 12000
```