

Implementation of ping program

Ap 13

Aim:-

To implement a ping program by socket

Client Side Algorithm:-

```
import socket
```

```
import time
```

```
def ping - server (host = '127.0.0.1',
```

```
port = 12345).
```

```
with socket: socket (socket.AF_INET,
```

```
socket.SOCK_DGRAM) as s
```

```
try:
```

```
s.sendto (b'Hello', (host, port)).
```

```
except s.timeout:
```

```
print ('Request timed out')
```

ping server()

Server Side Algorithm:-

```
import socket
```

```
def start - serve (host = '127.0.0.1',
```

```
port = 12345)
```

```
with socket: socket (socket.AF_INET,
```

```
socket.SOCK_DGRAM) as s,
```

s = build C
print (b'U')

while True
data
print

Socket

Start -

Sample

Server

Comment

output

UDP

receiving

Client

Sample

Sample

Result

Input

Output

3 Program

by self

0.0.1,

AF_INET
as s

port)

1)

1;

INET,
s,

1)

s = bind ('host', port)

print ('UDP server running on (host : port)')

while true :

data, addr = s.recvfrom(1024)

print ('Received message from',
addr, ' [data.decode ()]')

start - server ()

Sample inputs and outputs:-

Server Side:-

Command: python server.py

Output:-

UDP server running on 127.0.0.1:12345
received from ('127.0.0.1', 55437). ping

Client Side:-

Sample input:- enter host: 127.0.0.1

Sample output:- reply from 127.0.0.1: ping
time = 1.42 ms

Result:-

Implementation of Ping program has been
completed successfully.