

Implementation of ping program

EP13

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 socket.error:

print('Request timed out')

ping server()

Server side Algorithm :-

import socket

def start_server(host='127.0.0.1',
port=12345):

with socket.socket(socket.AF_INET,
socket.SOCK_DGRAM) as s:

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print("U")
while tr
data
print
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Client

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```
s = socket (socket.AF_INET, socket.SOCK_DGRAM, 0)
print ("UDP server running on port 3")
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while True :

```
data, addr = s.recvfrom(1024)
print ("Received message from",
```

addr[0], data.decode('utf-8'))

```
s.sendto("Hello", addr)
```

Sample inputs and outputs

Server Side :-

Command : python server.py

Output :-

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

Client Side :-

Sample input : -cater port : 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.