Aiu:

671717977 2309

To implement echo client seever using TCP/UDP Sockets

Algorithu

Server Py:

- * create a UDP socket
- * Bind the socket to specific IP address (127.0.0.1)
- 2 port (12345)
- * continuous listen for incoming message
- * when message received decode it
- * Display mersage along with sender address.
- * Repeat infinitely.

client. Py:

- * create UDP socket
- * Set a timeout for socket to avoid waiting.
- * send a predefined helssage hello for server IP

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- address 2 port 12345
- * If no response received in timeout period, print timeout mersage

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- * close socket after sending message.

def start_server (host='127.0.0.1', post=12345)!

with sochet cooket AF-INET, Sou SOCK-DGIRAM) Q S. bend ((host, port)) print (f" UDP server neuring on frage Sport 3") WITTEN A while True: data, addr = s. recvfroul (1024) print (f'neceived message from sadars. devodel)?") if = name - == "- main--" star-server() AND LEADER OF DOZZEDIN MELANIN A 2018 393 (3) parasis 3920 2031 paggion x client py det ping-server (host='127.0.0.1', polt=12345): with socket socket (socket AF_INET, Socket. SOCK_DGIRAM) ass. PHILIPPUS DE DE DE VIET DISTRICT DE DOZ #1 19438 334 24 443 2 219 D. 24 1152 H s. sendto (b'Hello', (host, port)) print ("message sent to seever") encept sochet timeout: print ("Request timed out") ef -- nouve -- == "-- mainpring-servée ()

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output:

seever.py

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> pythou server. py

UDP seever running on 127.0.0.1:12345

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client. Py

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> pythou client. py

message sent to server

server terninal:

Received niersage from ('127.0.0.1', 56003): Hello

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Thus the program is successfully executed and the output is verified.