keerthanamurugan06 / 2a_Stop_and_Wait_Protocol

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README

2a_Stop_and_Wait_Protocol

AIM

To write a python program to perform stop and wait protocol

ALGORITHM

1. Start the program.
2. Get the frame size from the user
3. To create the frame based on the user request.
4. To send frames to server from the client side.
5. If your frames reach the server it will send ACK signal to client
6. Stop the Program

PROGRAM

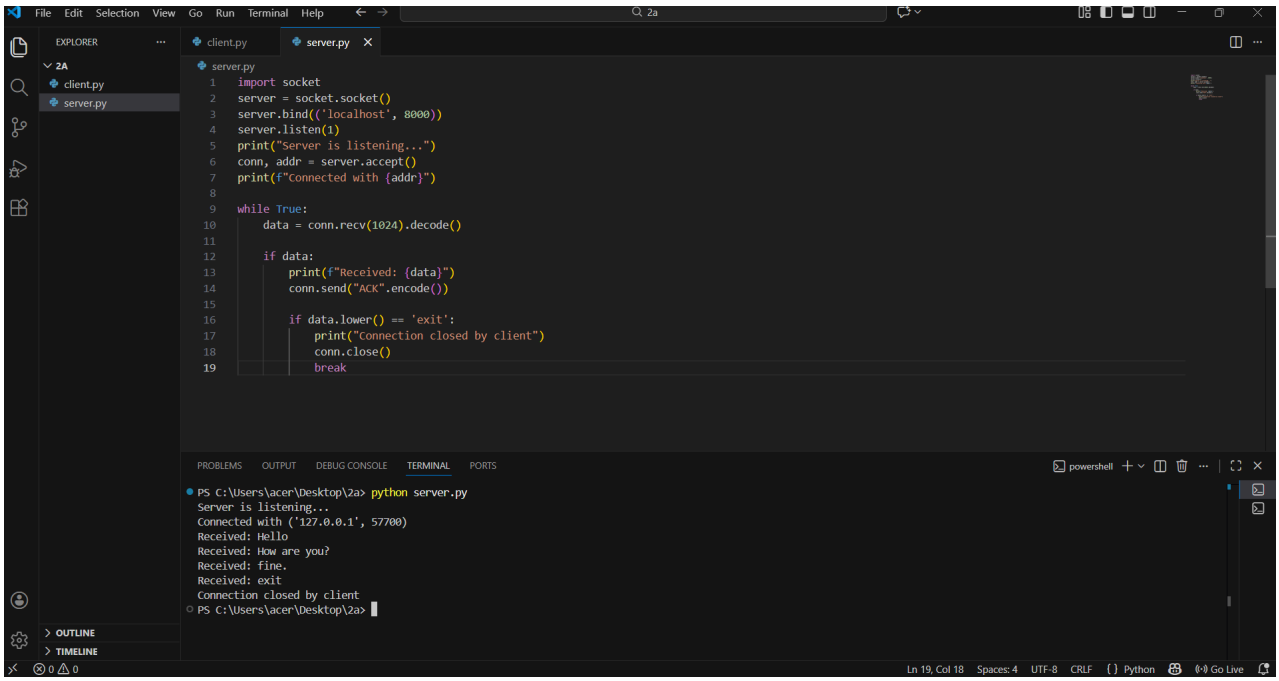
client.py

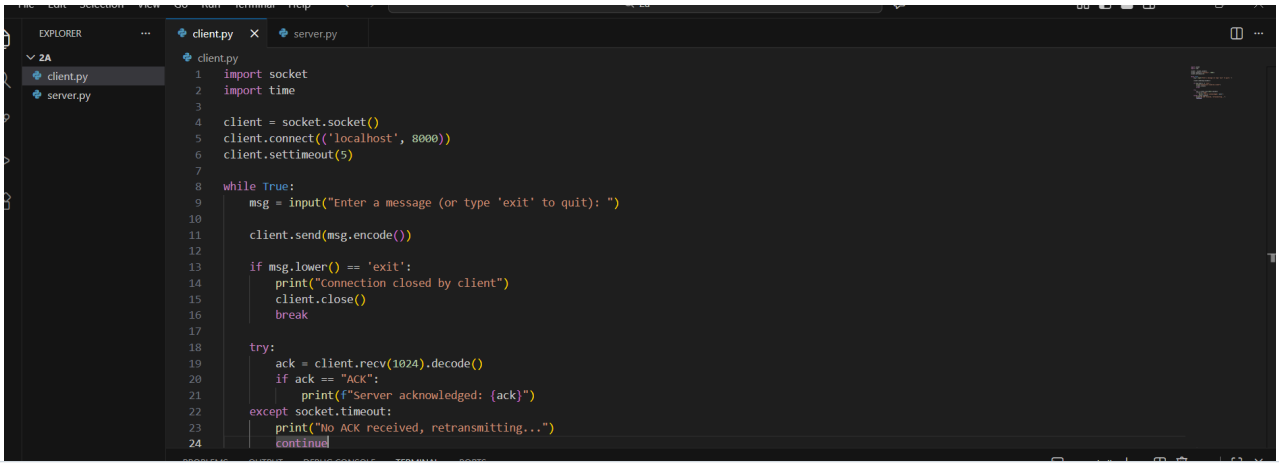
```
import socket
import time

client = socket.socket()
client.connect(('localhost', 8000))
client.settimeout(5)

while True:
    msg = input("Enter a message (or type 'exit' to quit): ")

    client.send(msg.encode())

    if msg.lower() == 'exit':
        print("Connection closed by client")
        client.close()
        break

    try:
        ack = client.recv(1024).decode()
        if ack == "ACK":
            print(f"Server acknowledged: {ack}")
    except socket.timeout:
        print("No ACK received, retransmitting...")
        continue
```

server.py

```
import socket
server = socket.socket()
server.bind(('localhost', 8000))
server.listen(1)
print("Server is listening...")
conn, addr = server.accept()
print(f"Connected with {addr}")

while True:
    data = conn.recv(1024).decode()

    if data:
        print(f"Received: {data}")
        conn.send("ACK".encode())

        if data.lower() == 'exit':
            print("Connection closed by client")
            conn.close()
            break
```

OUTPUT





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