EXPERIMENT: 30

CREATING THE APPLICATIONS USING TCP CHAT CLIENT AND CHAT SERVER IN C

Aim: To create an application using TCP CHAT CLIENT and CHAT SERVER.

Algorithm:

SERVER:

STEP 1: Start

STEP 2: Declare the variables for the socket

STEP 3: Specify the family, protocol, IP address and port number

STEP 4: Create a socket using socket() function

STEP 5: Bind the IP address and Port number

STEP 6: Listen and accept the client's request for the connection

STEP 7: Read the client's message

STEP 8: Display the client's message

STEP 9: Continue the chat

STEP 10: Terminate the chat

STEP 11: Close the socket

STEP 12: Stop

CLIENT:

STEP 1: Start

STEP 2: Declare the variables for the socket

STEP 3: Specify the family, protocol, IP address and port number

STEP 4: Create a socket using socket() function

STEP 5: Call the connect() function

STEP 6: Read the input message

STEP 7: Send the input message to the server

STEP 8: Display the server's reply

STEP 9: Continue the chat

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STEP 10: Terminate the chat

STEP 11: Close the socket

STEP 12: Stop


```
PS E:\studies\CN\practicals\source files\expt30> .\chat_server.exe
Chat server listening on port 9091...
Client connected! Start chatting...
Client: hi
You: How are you
Client: i am not fine i am grinding this computer network practicals
You: Ya man i thought it would be easy.But intially it was
Client: what about now
You: Now its ok
```

```
PS E:\studies\CN\practicals\source files\expt30> .\chat_client.exe
Connected to server! Start chatting...
You: hi
Server: How are you
You: i am not fine i am grinding this computer network practicals
Server: Ya man i thought it would be easy.But intially it was
You: what about now
Server: Now its ok
You: []
```

Result: Thus the application using TCP CHAT CLIENT AND CHAT SERVER is created successfully