

**EXPERIMENT: 30**  
**CREATING THE APPLICATIONS USING TCP CHAT CLIENT AND CHAT SERVER IN**  
**JAVA/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:**

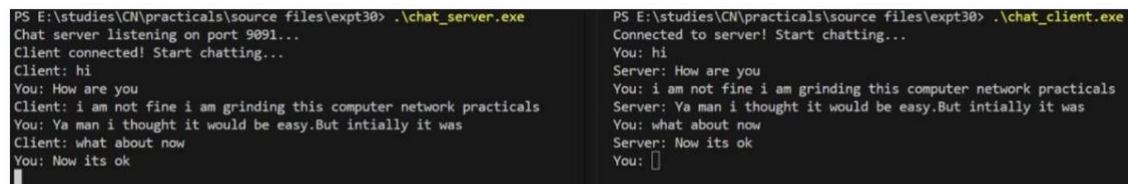
- STEP 1: Start
- STEP 2: Declare the variables for the socket
- STEP 3: Specify the family, protocol, IP address and port number
- STEP 4: Create a socket using socket() function
- STEP 5: Call the connect() function
- STEP 6: Read the input message
- STEP 7: Send the input message to the server
- STEP 8: Display the server's reply
- STEP 9: Continue the chat

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.