

EXPERIMENT: 26

TO IMPLEMENT DATE AND TIME DISPLAY FROM CLIENT TO SERVER USING TCP SOCKETS IN JAVA/C

Aim: To implement date and time display from client to server using TCP Sockets.

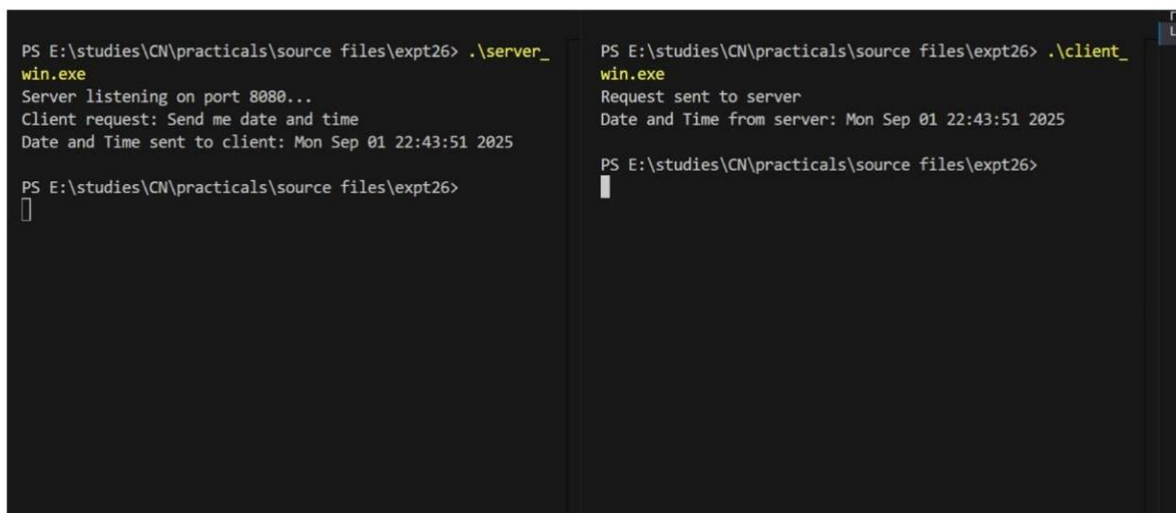
Algorithm:

Server

1. Create a server socket and bind it to port.
2. Listen for new connection and when a connection arrives, accept it.
3. Send server's date and time to the client.
4. Read client's IP address sent by the client.
5. Display the client details.
6. Repeat steps 2-5 until the server is terminated.
7. Close all streams.
8. Close the server socket.
9. Stop.

Client

1. Create a client socket and connect it to the server's port number.
2. Retrieve its own IP address using built-in function.
3. Send its address to the server.
4. Display the date & time sent by the server.
5. Close the input and output streams.
6. Close the client socket.
7. Stop.



```
PS E:\studies\CN\practicals\source files\expt26> .\server_
win.exe
Server listening on port 8080...
Client request: Send me date and time
Date and Time sent to client: Mon Sep 01 22:43:51 2025

PS E:\studies\CN\practicals\source files\expt26>

PS E:\studies\CN\practicals\source files\expt26> .\client_
win.exe
Request sent to server
Date and Time from server: Mon Sep 01 22:43:51 2025

PS E:\studies\CN\practicals\source files\expt26>
```

Result: Thus date and time is displayed from client to server using TCP Sockets successfully.