

EX.NO:3b: CLIENT- SERVER APPLICATION FOR CHAT-MUTHUKUMAR-9006

PROGRAM:

TCPSERVER:

```
import java.net.*;
import java.io.*;

public class tcpsrvr {

    public static void main(String[] args) {

        ServerSocket serverSocket = null;

        String line;

        DataInputStream inputStream = null;

        PrintStream outputStream = null;

        Socket clientSocket = null;

        try {

            serverSocket = new ServerSocket(9999);

            System.out.println("Server is listening on port 9999...");

            clientSocket = serverSocket.accept();

            System.out.println("Client connected.");

            inputStream = new DataInputStream(clientSocket.getInputStream());

            BufferedReader consoleInput = new BufferedReader(new InputStreamReader(System.in));

            outputStream = new PrintStream(clientSocket.getOutputStream());

            BufferedReader clientInput = new BufferedReader(new InputStreamReader(inputStream));

            do {

                line = clientInput.readLine();

                System.out.println("Client: " + line);

                System.out.print("Server: ");

                line = consoleInput.readLine();

                outputStream.println(line);

            } while (!line.equalsIgnoreCase("quit"));

            inputStream.close();

        } catch (Exception e) {

            e.printStackTrace();

        }

    }

}
```

```

        outputStream.close();

        clientSocket.close();

        serverSocket.close();
    } catch (IOException e) {

        System.out.println("Exception: " + e); } }
}

```

TCPCLIENT:

```

import java.net.*;

import java.io.*;

public class tcpclient {

    public static void main(String[] args) {

        Socket socket = null;

        PrintStream outputStream = null;

        try {

            socket = new Socket("localhost", 9999);

            System.out.println("Connected to the server.");

            BufferedReader inputStream = new BufferedReader(new
InputStreamReader(socket.getInputStream()));

            BufferedReader consoleInput = new BufferedReader(new InputStreamReader(System.in));

            outputStream = new PrintStream(socket.getOutputStream());

            String line;

            do {

                System.out.print("Client: ");

                line = consoleInput.readLine();

                outputStream.println(line);

                String response = inputStream.readLine();

                System.out.println("Server: " + response);

            } while (!line.equalsIgnoreCase("quit"));

```

```
        inputStream.close();  
        outputStream.close();  
        socket.close();  
    } catch (IOException e) {  
        System.out.println("Exception: " + e);} } }
```

OUTPUT:

SERVER:

E:\JAVA>javac tcpserver.java

E:\JAVA>java tcpserver

Server is listening on port 9999...

Client connected.

Client: Hi!

Server: Hi

Client: How Are you?

Server: I am fine

Client: quit

Server: quit

CLIENT:

E:\JAVA>javac tcpclient.java

E:\JAVA>java tcpclient

Connected to the server.

Client: Hi!

Server: Hi

Client: How Are you?

Server: I am fine

Client: quit