#### PRACTICAL-1

# AIM: CREATE A CHAT APPLICATION USING TCP OR UDP PROTOCOL.

### **PROGRAM:**

• <u>SERVER:</u>

```
import java.io.*;
 import java.net.*;
 class myserver{
      public static void main(String args[]) throws Exception
                // Create server Socket
                ServerSocket ss = new ServerSocket(5553);
                // connect it to client socket
                Socket s = ss.accept();
                System.out.println("Connection established");
                // to send data to the client
               DataOutputStream dos = newDataOutputStream(s.getOutputStream());
               // to read data coming from the client
BufferedReader br = newBufferedReader(newInputStreamReader(s.getInputStream()));
               // to read data from the keyboard
      BufferedReader kb = new BufferedReader( new InputStreamReader(System.in));
              // server executes continuously
              while (true) {
                           String str, str1;
                         // repeat as long as the client
                         // does not send a null string
                        // read from client
                        while ((str = br.readLine()) != null) {
                               System.out.println(str);
                               str1 = kb.readLine();
                               // send to client
                               dos.writeBytes(str1 + "\n");
                       // close connection
                       dos.close();
                       br.close();
                       kb.close();
                       ss.close();
                       s.close();
                     // terminate application
```

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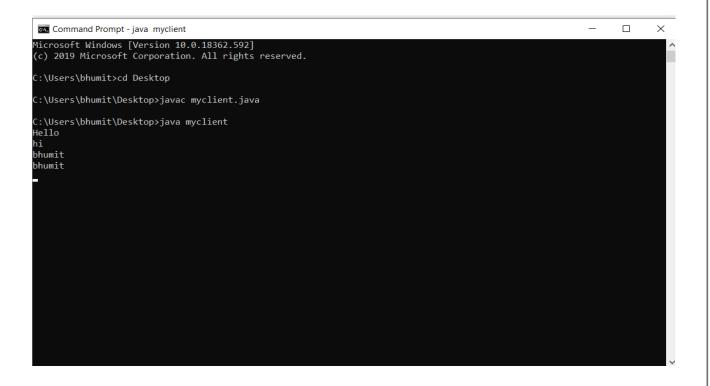
```
System.exit(0); } }
```

## • <u>CLIENT:</u>

```
import java.io.*;
import java.net.*;
class myclient {
    public static void main(String args[]) throws Exception {
          // Create client socket
      Socket s = new Socket("localhost", 5553);
         // to send data to the server
 DataOutputStream dos = new DataOutputStream( s.getOutputStream());
        // to read data coming from the server
BufferedReader br=newBufferedReader(newInputStreamReader(s.getInputStream()));
        // to read data from the keyboard
BufferedReader kb = new BufferedReader( new InputStreamReader(System.in));
        String str, str1;
        // repeat as long as exit
        // is not typed at client
        while (!(str = kb.readLine()).equals("exit")) {
              // send to the server
               dos.writeBytes(str + "\n");
             // receive from the server
               str1 = br.readLine();
               System.out.println(str1);
        }
        // close connection.
        dos.close();
        br.close();
        kb.close();
     s.close();} }
```

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### **OUPUT:**



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