

### 1. Write code for Client and save in ChatClient.java

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

public class ChatClient
{
    public static void main(String arg[])
    {
        try{
            Socket s=new Socket("localhost",8888); // Socket ()
            System.out.println("Server Connected : "+s); // Connect ()

            /** DataInputStream writes formatted binary data. DataOutputStream reads formatted
            binary data. ***/
        }
    }
}
```

```

        DataInputStream din=new DataInputStream(s.getInputStream()); // Read ()
        DataOutputStream dout=new DataOutputStream(s.getOutputStream()); // Write

```

```

/** BufferedReader reads text from a character-input stream, buffering characters so as
to provide for the efficient reading of characters, arrays, and lines */

```

```

        BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
        String s1;

```

```

        do{
            s1=br.readLine();
            dout.writeUTF(s1);
            dout.flush();
            System.out.println("Server Message: I am from server.

```

```

"+din.readUTF());
            }while(!s1.equals("stop"));

```

```

        }
        catch(Exception e)
        {
            System.out.println(e);
        }
    }
}

```

## 2. Write code for Server Side and save in ChatServer.java

### Server

```

import java.io.*;
import java.net.*;
public class ChatServer
{
    public static void main(String arg[])
    {
        try{
            System.out.println("Server START.....");
            ServerSocket ss=new ServerSocket(8888); // Socket() and Bind() port
            Socket s=ss.accept(); // listen() and accept()
            System.out.println("Client Connected.....");
            DataInputStream din=new DataInputStream(s.getInputStream()); // read()
            DataOutputStream dout=new DataOutputStream(s.getOutputStream()); // write()

            String str=" ";
            do{
                str=din.readUTF();
                System.out.println("Client Message: "+str);
                dout.writeUTF("Your message is: "+str);
                dout.flush();

                }while(!str.equals("stop"));

            }catch(Exception e){System.out.println(e);}
        }
    }
}

```

3. Make a project folder in C:\ e.g. socket

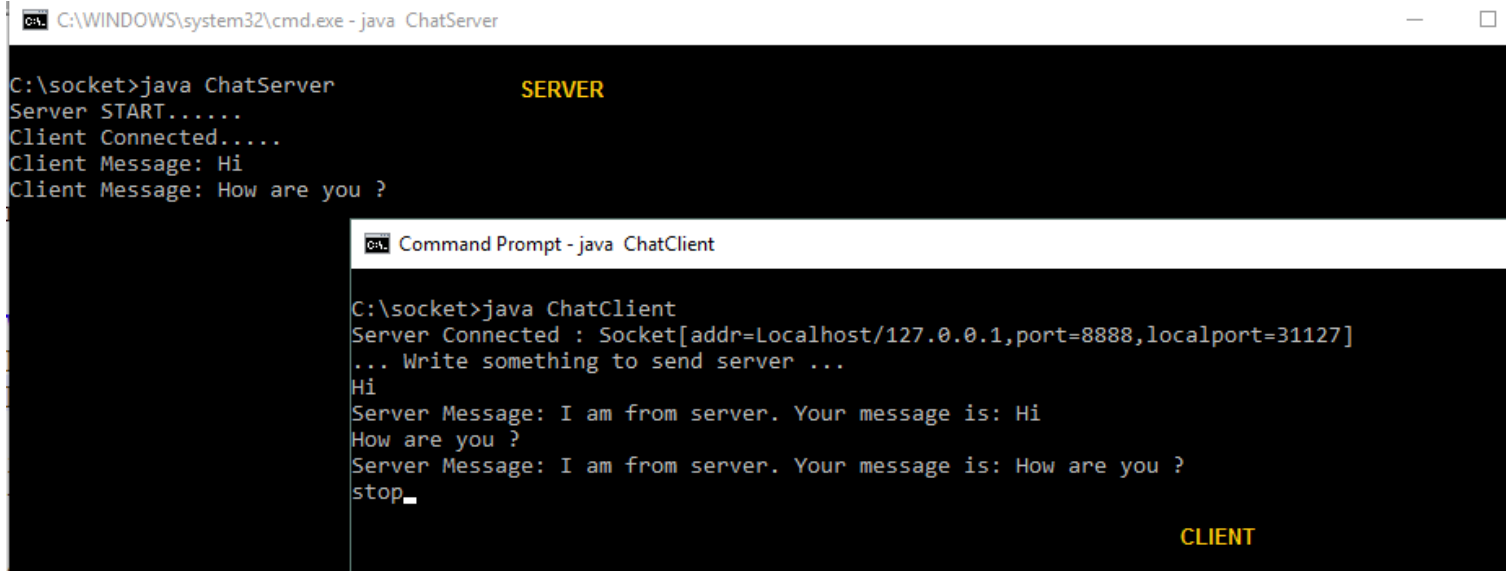
4. Open Command Prompt

5. Create directory as C:\socket>

6. Type `C:\socket>javac ChatServer.java` and Enter
7. Type `C:\socket>javac ChatClient.java` and Enter
8. Again open other Command Prompt for Server
9. Type `C:\socket>java ChatServer` and Enter
10. In other command prompt for Client
11. Type `C:\socket>java ChatClient` and Enter

**NOTE : Run GreetingServer.java before GreetingClient.java**

## OUTPUT



```
C:\WINDOWS\system32\cmd.exe - java ChatServer
C:\socket>java ChatServer
Server START.....
Client Connected.....
Client Message: Hi
Client Message: How are you ?

Command Prompt - java ChatClient
C:\socket>java ChatClient
Server Connected : Socket[addr=localhost/127.0.0.1,port=8888,localport=31127]
... Write something to send server ...
Hi
Server Message: I am from server. Your message is: Hi
How are you ?
Server Message: I am from server. Your message is: How are you ?
stop_
```