

Exp No: 5

CLIENT SERVER APPLICATION FOR CHAT

Date:

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CODE

Server.java

```
import java.net.*;
import java.io.*;
public class Server{
    public static void main(String[] args){

        try {

            String msg = "";

            ServerSocket ss = new ServerSocket(1999);

            System.out.println("Waiting for Client..");
            Socket s = ss.accept();
            System.out.println("Connection Established With Client");

            DataOutputStream dos = new DataOutputStream(s.getOutputStream());
            DataInputStream dis = new DataInputStream(s.getInputStream());
            BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

            while (true) {
                System.out.println("Message From Client: " + dis.readUTF());

                System.out.print("Enter Message: ");
                msg = br.readLine();
                if (msg.equals("!quit")) break;
                dos.writeUTF(msg);
            }

            ss.close();

        }
        catch (EOFException ie){
            System.out.println("Can't connect to the Client.");
        } catch (IOException ie){
            ie.printStackTrace();
        }
    }
}
```

Client/Main.java

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

public class Client{
    public static void main(String[] args){

        try {
```

```
String msg = "";
```

```
Socket s = new Socket("localhost",1999);  
System.out.println("Connection Established With Server");  
DataOutputStream dos = new DataOutputStream(s.getOutputStream());  
DataInputStream dis = new DataInputStream(s.getInputStream());  
BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
```

```
while (true) {  
    System.out.print("Enter Message: ");  
    msg = br.readLine();  
    if (msg.equals("!quit")) break;  
    dos.writeUTF(msg);  
  
    System.out.println("Message From Server:" + dis.readUTF());  
}
```

```
s.close();
```

```
} catch (SocketException ie){  
    System.out.println("Can't connect to the Server.");  
} catch (IOException ie){  
    ie.printStackTrace();  
}
```

```
}  
}
```

OUTPUT

Client:

```
C:\Computer-Networks\5>java Client  
Connection Established With Server  
Enter Message: Hi  
Message From Server:Hello  
Enter Message: How are You  
Message From Server:Good  
Enter Message: Bye  
Can't connect to the Server.
```

Server:

```
C:\Computer-Networks\5>java Server  
Waiting for Client..  
Connection Established With Client  
Message From Client: Hi  
Enter Message: Hello  
Message From Client: How are You  
Enter Message: Good  
Message From Client: Bye  
Enter Message: !quit
```

RESULT