Practical 1: Create chat application using either TCP or UDP protocol.

Server Code

```java
import java.net.*;
import java.io.*;
class server1
{
        public static void main(String args[]) throws Exception
        {
                ServerSocket ss = new ServerSocket(7777);
                Socket s = ss.accept();
                System.out.println("Connected");
                PrintStream ps = new PrintStream(s.getOutputStream());
                BufferedReader br = new BufferedReader(new
InputStreamReader(s.getInputStream()));
                BufferedReader kb = new BufferedReader(new InputStreamReader(System.in));
                while(true)
                {
                        String str="",str1="";
                        while((str=br.readLine())!=null)
                        {
                                System.out.println(str);
                                str1=kb.readLine();
                                ps.println(str1);
                        }
                        ps.close();        br.close();        kb.close();        s.close();        ss.close();
                }
        }
}
```
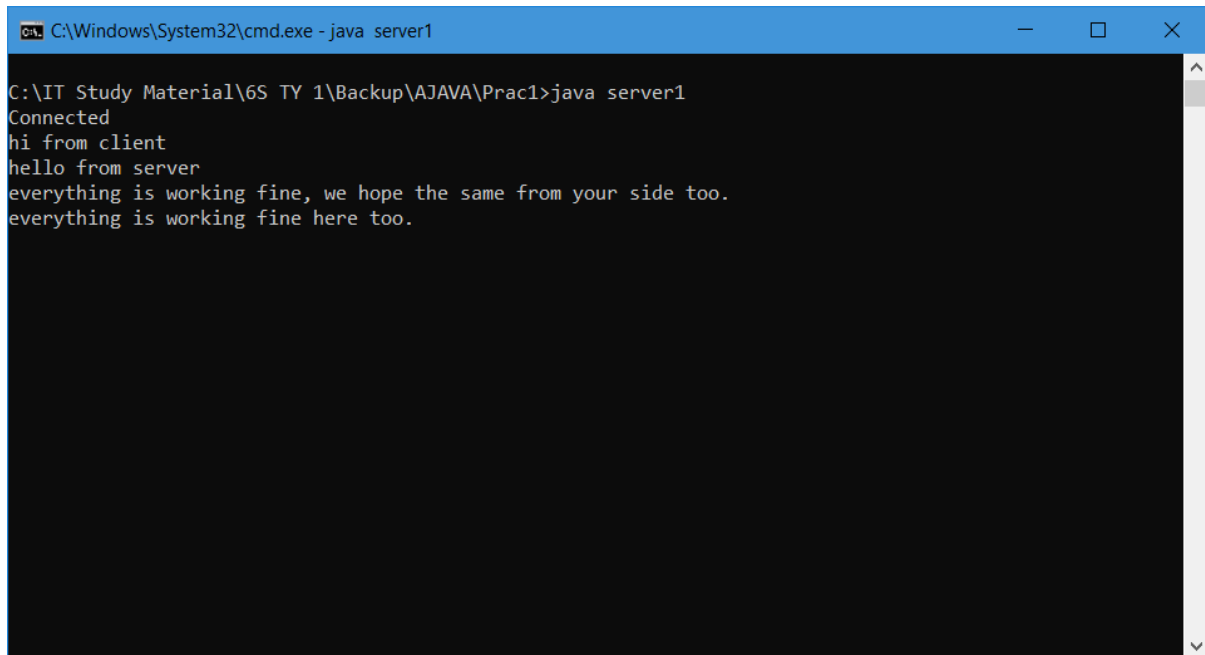
Client Code

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


class client1
{
    public static void main(String args[]) throws Exception
    {
        Socket s = new Socket("localhost",7777);
        DataOutputStream dos = new DataOutputStream(s.getOutputStream());
        BufferedReader br = new BufferedReader(new
InputStreamReader(s.getInputStream()));
        BufferedReader kb = new BufferedReader(new InputStreamReader(System.in));
        String str,str1;
        while(! (str=kb.readLine()).equals("exit"))
        {
            dos.writeBytes(str+"\n");
            str1=br.readLine();
            System.out.println(str1);
        }
        dos.close();
        br.close();
        kb.close();s.close();
    }
}
```
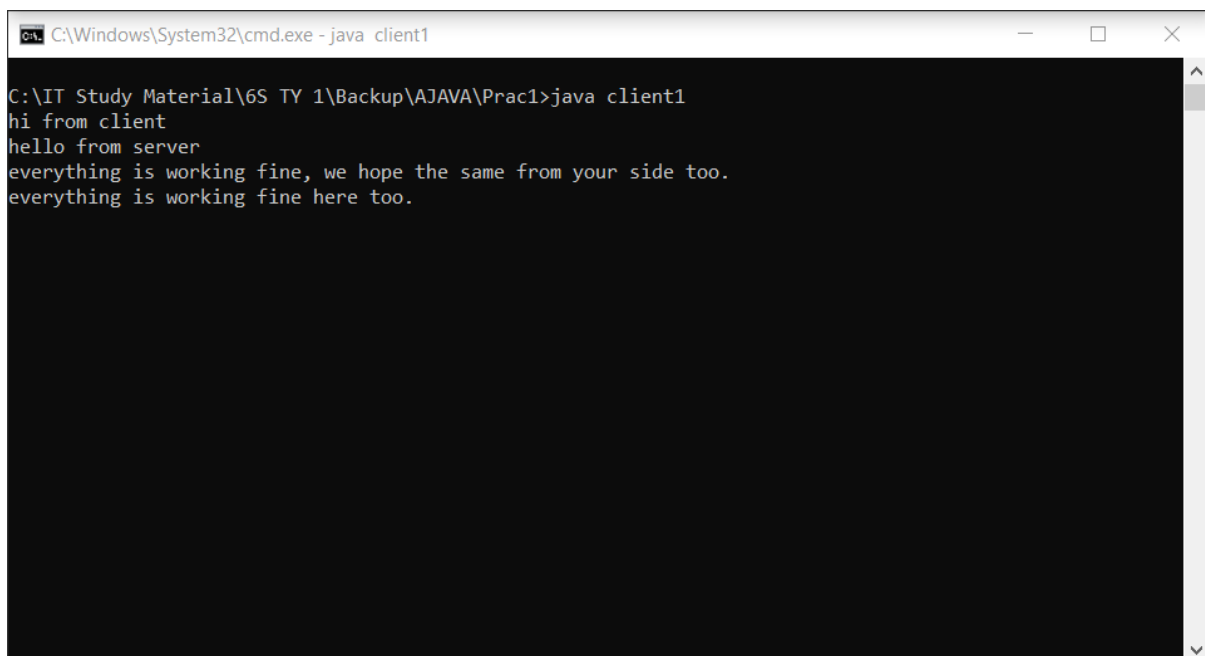
Server Output

```
C:\Windows\System32\cmd.exe - java server1                          —    □    ×

C:\IT Study Material\6S TY 1\Backup\AJAVA\Prac1>java server1
Connected
hi from client
hello from server
everything is working fine, we hope the same from your side too.
everything is working fine here too.
```

Client Output

```
C:\Windows\System32\cmd.exe - java client1                          —    □    ×

C:\IT Study Material\6S TY 1\Backup\AJAVA\Prac1>java client1
hi from client
hello from server
everything is working fine, we hope the same from your side too.
everything is working fine here too.
```