CSE3011 NETWORK PROGRAMMING LAB EXPERIMENT 2

NAME - B PRATYUSH

REGISTRATION NUMBER – 19BCN7114

LAB SLOT – L11+L12

FACULTY - PROF. MUNEESWARI

Experiment Description: Client Server Communication using Sockets

```
Client End:
MyClient.java
Code:
import java.net.*;
import java.io.*;
class MyClient{
public static void main(String args[])throws Exception{
Socket soc=new Socket("localhost",3333);
DataInputStream din=new DataInputStream(soc.getInputStream());
DataOutputStream dout=new
DataOutputStream(soc.getOutputStream());
BufferedReader br=new BufferedReader(new
InputStreamReader(System.in));
String str="",str2="";
```

```
while(!str.equals("stop")){
str=br.readLine();
dout.writeUTF(str);
dout.flush();
str2=din.readUTF();
System.out.println("Server says: "+str2);
}
dout.close();
soc.close();
}
}
Server End:
MyServer.java
Code:
import java.net.*;
import java.io.*;
class MyServer{
public static void main(String args[])throws Exception{
ServerSocket ss=new ServerSocket(3333);
Socket soc=ss.accept();
DataInputStream din=new DataInputStream(soc.getInputStream());
DataOutputStream dout=new
DataOutputStream(soc.getOutputStream());
```

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

```
String str="",str2="";
while(!str.equals("stop")){
str=din.readUTF();
System.out.println("client says: "+str);
str2=br.readLine();
dout.writeUTF(str2);
dout.flush();
}
din.close();
soc.close();
ss.close();
}
}
```

Server End Output:

Administrator: Command Prompt

```
Microsoft Windows [Version 10.0.18363.418]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\Windows\system32>cd C:\Users\LENOVO\Desktop
C:\Users\LENOVO\Desktop>javac MyServer.java
C:\Users\LENOVO\Desktop>java MyServer
client says: Hi Server
Hello Client
client says: How are u ?
I am fine! What about u?
client says: I am doing good? Are u attending the NP Lab today
Yes I am attending.
client says: Ok then Lets go together
Yeah sure ! Bye For now
client says: bye
stop
client says: stop
stop
C:\Users\LENOVO\Desktop>
```

Client End Output:

Administrator: Command Prompt

```
C:\Users\LENOVO\Desktop>javac MyClient.java
C:\Users\LENOVO\Desktop>java MyClient
Exception in thread "main" java.net.ConnectException: Connection refused: connect
         at java.base/java.net.DualStackPlainSocketImpl.connect0(Native Method) at java.base/java.net.DualStackPlainSocketImpl.socketConnect(Unknown Source)
         at java.base/java.net.AbstractPlainSocketImpl.doConnect(Unknown Source)
         at java.base/java.net.AbstractPlainSocketImpl.connectToAddress(Unknown Source) at java.base/java.net.AbstractPlainSocketImpl.connect(Unknown Source)
         at java.base/java.net.PlainSocketImpl.connect(Unknown Source)
         at java.base/java.net.SocksSocketImpl.connect(Unknown Source) at java.base/java.net.Socket.connect(Unknown Source)
         at java.base/java.net.Socket.connect(Unknown Source)
         at java.base/java.net.Socket.<init>(Unknown Source) at java.base/java.net.Socket.<init>(Unknown Source)
         at MyClient.main(MyClient.java:5)
C:\Users\LENOVO\Desktop>java MyClient
Hi Server
Server says: Hello Client
How are u ?
Server says: I am fine! What about u?
I am doing good? Are u attending the NP Lab today
Server says: Yes I am attending.
Ok then Lets go together
Server says: Yeah sure ! Bye For now
bye
Server says: stop
Server says: stop
C:\Users\LENOVO\Desktop>
```