**CODING:**

**SERVER SIDE:**

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Program name: Chat Application Using TCP Socket.

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import java.net.\*;

import java.io.\*;

class echoserver

{

public static void main(String args[])

{

try

{

ServerSocket ss =new ServerSocket(2102);

Socket s1=ss.accept();

DataInputStream input = new DataInputStream(System.in);

DataInputStream dis = new DataInputStream(s1.getInputStream());

DataOutputStream output = new DataOutputStream(s1.getOutputStream());

String str1,str2;

do

{

str1 = (String)dis.readUTF();

System.out.println("Message from Client:"+str1);

System.out.println("server says:");

str2 = input.readLine();

output.writeUTF(str2);

}while(str1.equals("bye") == false);

s1.close();

output.close();

}

catch(Exception e)

{

System.out.println("Exception");

}

}

}

**CLIENT SIDE:**

import java.net.\*;

import java.io.\*;

class echoclient

{

public static void main(String args[])

{

try

{

Socket client =new Socket("localhost",2102);

DataInputStream input = new DataInputStream(System.in);

DataInputStream dis = new DataInputStream(client.getInputStream());

DataOutputStream output = new DataOutputStream(client.getOutputStream());

String str1,str2;

do

{

System.out.println("client says:");

str1 = input.readLine();

output.writeUTF(str1);

str2 = (String)dis.readUTF();

System.out.println("Message from Server:"+str2);

}while(str2.equals("bye") == false);

client.close();

output.close();

}

catch(Exception e)

{

System.out.println("Exception");

}

}

}

**OUTPUT:**

[itstudent@a4it126 ~]$ javac echo\*.java

Note: Some input files use or override a deprecated API.

Note: Recompile with -Xlint:deprecation for details.

[itstudent@a4it126 ~]$ java echoclient

client says:

hlo

Message from Server:hi

client says:

how r u

Message from Server:i am fine and u

client says:

i am fine

Message from Server:bye

[itstudent@a4it126 ~]$

[itstudent@a4it126 ~]$ java echoserver

Message from Client:hlo

server says:

hi

Message from Client:how r u

server says:

i am fine and u

Message from Client:i am fine

server says:

bye

Exception

[itstudent@a4it126 ~]$