**CODING:**

**SERVER SIDE:**

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Program name: Application of TCP Socket Echo Client and Echo Server.

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import java.net.\*;

import java.io.\*;

class EchoServer

{

public static void main(String args[]) throws Exception

{

ServerSocket server=new ServerSocket(9641);

Socket temp = server.accept();

DataOutputStream send = new DataOutputStream(temp.getOutputStream());

DataInputStream receive = new DataInputStream(temp.getInputStream());

String receivedMsg;

do{

System.out.println("Waiting for Client Message......");

receivedMsg=receive.readUTF();

System.out.println("Client says......"+receivedMsg);

send.writeUTF(receivedMsg);

}while(!receivedMsg.equalsIgnoreCase("Bye"));

}

}

**CLIENT SIDE:**

import java.net.\*;

import java.io.\*;

class EchoClient

{

public static void main(String args[]) throws Exception

{

Socket client = new Socket("localhost",9641);

DataInputStream input = new DataInputStream(System.in);

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

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

String inp;

do

{

System.out.println("Message:");

inp = input.readLine();

send.writeUTF(inp);

System.out.println("Waiting for Server's Acknowledgement......");

String receivedMsg = receive.readUTF();

System.out.println("Server Says...."+receivedMsg);

}while(!inp.equalsIgnoreCase("Bye"));

}

}

**OUTPUT:**  
[fystudent@a3fy27 ~]$ javac EchoClient.java

Note: EchoClient.java uses or overrides a deprecated API.

Note: Recompile with -Xlint:deprecation for details.

[fystudent@a3fy27 ~]$ java EchoClient

Message =

hlooo

Waiting for servers Acknowledgement

Server says...hlooo

Message =

how r u

Waiting for servers Acknowledgement

Server says...how r u

Message =

bye

Waiting for servers Acknowledgement

Server says...bye

[fystudent@a3fy27 ~]$ javac EchoServer.java

[fystudent@a3fy27 ~]$ java EchoServer

Waiting for clients message

Client says...hlooo

Waiting for clients message

Client says...how r u

Waiting for clients message

Client says...bye