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| **Chat Server** |
| package chatserver;  // \* @author saeed  import java.io.\*;  import java.net.\*;  public class ChatServer {  public static void main(String[] args) throws IOException {    //Getting IP address of local machine  InetAddress LocalAddress = InetAddress.getLocalHost();  //Creating Socket Address Local Host + Local Listener Port  InetSocketAddress serverSockAddress = new InetSocketAddress(LocalAddress,4444);  int concurrent\_clients = 5;    //creating a socket for Server/Listener  ServerSocket serverSocket = new ServerSocket();  //binding a Server socket  serverSocket.bind(serverSockAddress, concurrent\_clients);  System.out.println("Server ready to Linten at : " +  serverSocket.getLocalSocketAddress());    //client socket  Socket clientSocket = null;  // waiting a client and then accept the connection  clientSocket = serverSocket.accept();  System.out.println("Request Received From client : " +  clientSocket.getRemoteSocketAddress());      // preparing for data receiver  DataInputStream input;  input = new DataInputStream(clientSocket.getInputStream());  String message = input.readUTF();  System.out.println("Data Received : "+ message);      // preparing for data sender  DataOutputStream output;  output = new DataOutputStream(clientSocket.getOutputStream());  message = "Hi";  System.out.println("sending data : " + message);  output.writeUTF(message);    //closing objects  input.close();  output.close();  clientSocket.close();  serverSocket.close();    }  } |
| **Chat Client** |
| package chatclient;  //@author saeed  import java.io.\*;  import java.net.\*;  public class ChatClient {  public static void main(String[] args) throws IOException {      //Getting IP address of a remote host  InetAddress RemoteIPAddress=InetAddress.getLocalHost();  //RemoteIPAddress=InetAddress.getByName("google.com");    //Creating Socket Address Remote Host + Rempte Listener Port  InetSocketAddress serverSockAddress = new InetSocketAddress(RemoteIPAddress,4444);  //Creating a Socket  Socket clientSock = new Socket();  //Connecting the remote server  clientSock.connect(serverSockAddress);    // preparing for data sender  DataOutputStream output;  output = new DataOutputStream(clientSock.getOutputStream());  String message = "Hello";  System.out.println("sending data : " + message);  output.writeUTF(message);    // preparing for data receiver  DataInputStream input;  input = new DataInputStream(clientSock.getInputStream());  message = input.readUTF();  System.out.println("data received : " + message);    //closing objects  input.close();  output.close();  clientSock.close();    }  } |