## Write a program using TCP socket for wired network for following a. Say Hello to Each other

```
1)server.java
import java.io.*;
import java.net.*;
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import java.net.*;
public class Server {
  public static void main(String[] args) {
    int port = 5000;
    try (ServerSocket serverSocket = new ServerSocket(port)) {
      System.out.println("Server is listening on port " + port + "...");
      Socket socket = serverSocket.accept();
      System.out.println("Client connected: " + socket.getInetAddress());
      // Input and output streams
      BufferedReader in = new BufferedReader(new
InputStreamReader(socket.getInputStream()));
      PrintWriter out = new PrintWriter(socket.getOutputStream(), true);
      // Read message from client
      String message = in.readLine();
      System.out.println("Client says: " + message);
      // Send Hello back
      out.println("Hello from Server!");
```

```
socket.close();
    } catch (IOException ex) {
      ex.printStackTrace();
    }
  }
}
Client. java
import java.io.*;
import java.net.*;
public class Client {
  public static void main(String[] args) {
    String host = "localhost";
    int port = 5000;
    try (Socket socket = new Socket(host, port)) {
      System.out.println("Connected to server.");
      // Input and output streams
      BufferedReader in = new BufferedReader(new
InputStreamReader(socket.getInputStream()));
      PrintWriter out = new PrintWriter(socket.getOutputStream(), true);
      // Send Hello to server
      out.println("Hello from Client!");
      // Read response
      String response = in.readLine();
      System.out.println("Server says: " + response);
```

```
} catch (IOException ex) {
     ex.printStackTrace();
}
}
```

## How to Run

```
1.Compile both files:

javac Server.java
javac Client.java
2.Run the server first (in one terminal):
java Server
3.Then run the client (in another terminal or same machine):
java Client

Output

Server Terminal:

Server is listening on port 5000...

Client connected: /127.0.0.1

Client says: Hello from Client!
```

Client Terminal:

Connected to server.

Server says: Hello from Server!