## WEEK-9

Write a program to implement Client - Server communication for chat using Transmission Control Protocol (TCP).

## Server.java

```
import java.net.*;
import java.io.*;
public class Server {
      public static void main(String[] args) throws Exception {
            System.out.println("server is connected")
            ServerSocket ss=new ServerSocket(3333);
            System.out.println("Server is waiting for client request");
            Socket s=ss.accept();
            System.out.println("Client is connected, start chatting");
DataInputStream din=new DataInputStream(s.getInputStream());
DataOutputStream dout=new DataOutputStream(s.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();
            ss.close();
}
Client.java
import java.net.*;
import java.io.*;
public class Client {
      public static void main(String[] args) throws Exception {
            try {
                  Socket s=new Socket("localhost", 3333);
                  System.out.println("Start Chatting...");
DataInputStream din=new DataInputStream(s.getInputStream());
DataOutputStream dout=new DataOutputStream(s.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();
```

```
s.close();
}
catch(ConnectException e) {
    System.out.println("Server is offline");
}
}
```

## **OUTPUT**