**Networking**

**Echo Server (Client sends data, server reads it**

**Eg:--**

Code on server:--

import java.io.\*;

import java.net.\*;

class MyServer

{

public static void main(String args[ ])

{

try

{

ServerSocket ss=new ServerSocket(47);

Socket s=ss.accept();

//Reading data from console

InputStream is=s.getInputStream();

int i=0;

char ch=' ';

while(i!=-1)

{

i=is.read();

ch=(char)i;

if(i!=-1) System.out.print(ch);

}

is.close();

s.close();

ss.close();

}

catch(Exception e) { }

}

}

**Code on Client:--**

import java.io.\*;

import java.net.\*;

class MyClient

{

public static void main(String args[ ])

{

try

{

Socket s=new Socket("localhost", 47);

// Sending data to server

OutputStream os=s.getOutputStream();

DataInputStream dis=new DataInputStream(System.in);

System.out.println("Enter data to be sent to server");

String data=dis.readLine();

byte arr[ ]=data.getBytes();

os.write(arr);

os.close();

s.close();

}

catch(Exception e) { }

}

}

**Two way chat :--**

**Code on server:**

import java.io.\*;

import java.net.\*;

class MyServer

{

public static void main(String args[ ])

{

try

{

ServerSocket ss=new ServerSocket(47);

Socket s=ss.accept();

//Reading data from Client

InputStream is=s.getInputStream();

ObjectInputStream ois=new ObjectInputStream(is);

String data=(String)ois.readObject();

System.out.println("Client Says: " + data);

// Sending data to client

OutputStream os=s.getOutputStream();

ObjectOutputStream oos=new ObjectOutputStream(os);

DataInputStream dis=new DataInputStream(System.in);

System.out.println("Enter data to be sent to client");

data=dis.readLine();

oos.writeObject(data);

oos.close();

os.close();

ois.close();

is.close();

s.close();

ss.close();

}

catch(Exception e) { }

}

}

**Code on client :--**

import java.io.\*;

import java.net.\*;

class MyClient

{

public static void main(String args[ ])

{

try

{

Socket s=new Socket("localhost", 47);

// Sending data to server

OutputStream os=s.getOutputStream();

ObjectOutputStream oos=new ObjectOutputStream(os);

DataInputStream dis=new DataInputStream(System.in);

System.out.println("Enter data to be sent to server");

String data=dis.readLine();

oos.writeObject(data);

//Reading data from Server

InputStream is=s.getInputStream();

ObjectInputStream ois=new ObjectInputStream(is);

data=(String)ois.readObject();

System.out.println("Server Says: " + data);

oos.close();

os.close();

ois.close();

is.close();

s.close();

}

catch(Exception e) { }

}

}