**TP5**

**Copie d’un fichier octet par octect sans socket TCP**

import java.io.FileInputStream;

import java.io.FileOutputStream;

import java.io.IOException;

public class ex1 {

public static void main (String[] args) throws IOException {

if(args.length != 2){

System.out.println("Usage: <filename> <new filename>");

System.exit(1);;

}

String fileName = args[0];

String newFileName =args[1];

FileInputStream file = new FileInputStream(fileName);

FileOutputStream newFile = new FileOutputStream(newFileName);

for (int buffer = file.read(); buffer!=-1; buffer = file.read()) {

newFile.write(buffer);

}

file.close();

newFile.close();

}

}

**Transfert de fichier simple par socket TCP/IP Fichier client**

import java.io.IOException;

import java.io.InputStream;

import java.io.OutputStream;

import java.net.Socket;

import java.net.InetSocketAddress;

import java.net.InetAddress;

public class ex4\_Client {

public static void main (String[] args) throws IOException {

if (args.length != 1) {

System.out.println("usage: <filename>");

System.exit(1);

}

// Envoi du nom du fichier

Socket socket = new Socket();

InetSocketAddress adrDest = new InetSocketAddress("127.0.0.1",3000);

socket.connect(adrDest);

byte[] bufE = args[0].getBytes();

OutputStream os = socket.getOutputStream();

os.write(bufE);

System.out.println("Message envoyé");

// Reception d'une réponse

byte[] bufR = new byte[2048];

InputStream is = socket.getInputStream();

String reponse = new String(bufR, 0 ,is.read(bufR));

System.out.println(reponse);

}

}

**Fichier serveur**

import java.io.IOException;

import java.io.InputStream;

import java.io.OutputStream;

import java.net.Socket;

import java.net.InetSocketAddress;

import java.net.ServerSocket;

import java.io.FileInputStream;

import java.io.FileOutputStream;

public class ex4\_Serveur {

public static void main (String[] args) throws IOException {

System.out.println("Demmarrage serveur ...");

ServerSocket socketEcoute = new ServerSocket();

socketEcoute.bind(new InetSocketAddress(3000));

Socket socketConnexion = socketEcoute.accept();

System.out.println("client est connecté");

// reception

byte[] bufR = new byte[2048];

InputStream is = socketConnexion.getInputStream();

int lenBufR = is.read(bufR);

if (lenBufR != -1) {

String fileName = new String(bufR, 0 ,lenBufR);

System.out.println("file recu = "+fileName);

FileInputStream file = new FileInputStream(fileName);

System.out.println("fichier receptionné");

OutputStream os = socketConnexion.getOutputStream();

System.out.println("Message envoyé");

}

}

}