# Fichier serveurtcp.java

import java.io.\*; import java.net.\*;

public class serveurtcp {

private static int port;

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

boolean boucle = true;

Reader readersoc;

PrintStream a\_envoye=null;

Socket soc;

String line;

if(args.length != 1) {

System.out.println("usage : java serveurtcp port");

System.exit(0); }

port = Integer.parseInt(args[0]);

ServerSocket s = new ServerSocket (port);

System.out.println("La socket serveur est cree");

while (true) {

boucle = true;

soc = s.accept();

System.out.println("Connexion realise a " + soc.toString());

readersoc = new InputStreamReader(soc.getInputStream());

a\_envoye = new PrintStream(soc.getOutputStream());

BufferedReader datarecu = new BufferedReader (readersoc);

while (boucle) {

line = datarecu.readLine();

System.out.println("Vous avez saisi : " + line);

if(line.equals("FIN")) {

boucle = false;

line = null;

soc.close(); }

else {

StringBuffer lineReversed = (new StringBuffer(line)).reverse();

A\_envoye.println(lineReversed); }

}}}}

**Fichier clienttcp.java**

import java.io.\*;import java.net.\*;

public class clienttcp

{

private static int port;

public static void main (String [] args) throws Exception

{

String adresse, line, lineReversed;

Reader readSoc;

PrintStream a\_envoye=null;

if(args.length != 2) {

System.out.println("usage : java client nom\_serveur port");

System.exit(0); }

adresse = args[0];

port = Integer.parseInt(args[1]);

Socket socket = new Socket(adresse, port);

Reader reader = new InputStreamReader(System.in);

BufferedReader keyboard = new BufferedReader(reader);

a\_envoye = new PrintStream(socket.getOutputStream());

readSoc = new InputStreamReader(socket.getInputStream());

BufferedReader RecuSoc = new BufferedReader (readSoc);

while (true) {

System.out.println("Entrez une ligne de texte : ");

line = keyboard.readLine();

a\_envoye.println(line);

// si on a tape "FIN" on quitte le client

if(line.equals("FIN")) break;

lineReversed = RecuSoc.readLine();

System.out.println("Recu : " + lineReversed); }

// fermeture de la socket

socket.close();}

}

**Fichier serveurudp.java**

import java.io.\*;

import java.net.\*;

public class serveurudp {

private static int port ;

static final int taille = 1024;

static final byte buffer[] = new byte[taille];

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

if (args.length !=1) {

System.out.println(“usage : java serveur port”);

System.exit(0) ; }

Port = Integer.parseInt(args[0]);

DatagramSocket soc = new DatagramSocket(port);

DatagramPacket data = new DatagramPacket(buffer, buffer.length);

System.out.println("en attente d’un message");

soc.receive(data);

System.out.println("adresse : " +data.getAddress() + " et " + data.getPort());

System.out.println("recu : " + new String(data.getData()));

String mesg = "OK";

int length = mesg.length();

byte buf[]= mesg.getBytes();

DatagramPacket datasent = new DatagramPacket(buf, buf,length, data.getAddress(), data.getPort());

soc.send(datasent);

System.out.println("paquet envoye");

soc.close() ;

}

}

**Fichier clientudp.java**

import java.io.\*;

import java.net.\*;

public class clientudp {

private static int port ;

static final int taille = 1024;

static final byte buffer[] = new byte[taille];

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

if (args.length !=2)

{ System.out.println("usage : java client nom\_serveur port");

System.exit(0); }

Reader reader = new InputStreamReader(System.in);

BufferedReader keyboard = new BufferedReader(reader);

InetAddress serveur = InetAddress.getByName(args[0]);

Port = Integer.parseInt(args[1]);

System.out.println("Entrez un mot: ");

String line = keyboard.readLine();

int length = line.length();

byte buff[]=line.getBytes();

DatagramPacket datasent = new DatagramPacket(buff,length,serveur, port);

DatagramSocket soc = new DatagramSocket ();

soc.send(datasent);

System.out.println("paquet envoye");

DatagramPacket datareceive = new DatagramPacket(buffer, buffer.length);

soc.receive(datareceive);

int lg = datareceive.getLength();

System.out.println("reponse : " + new String(datareceive.getData()));

soc.close();

}

}