# 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();

 }

}