

Fichier serveur tcp.java

```
import java.io.*; import java.net.*;

public class serveur tcp {
    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 serveur tcp 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 client tcp.java

```
import java.io.*;import java.net.*;

public class client tcp
{
    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();
    }
}
```