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");
		}
	}
}
```