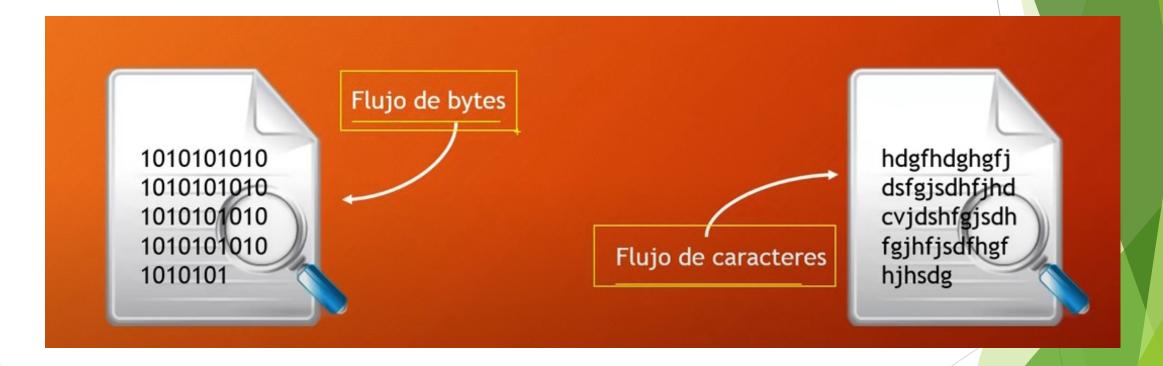
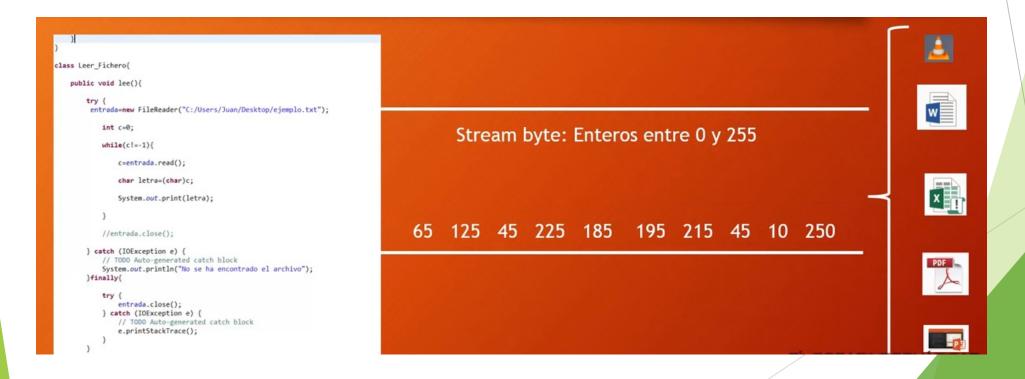
ACCESO A DATOS

UT 1 - MANEJO DE FICHEROS II

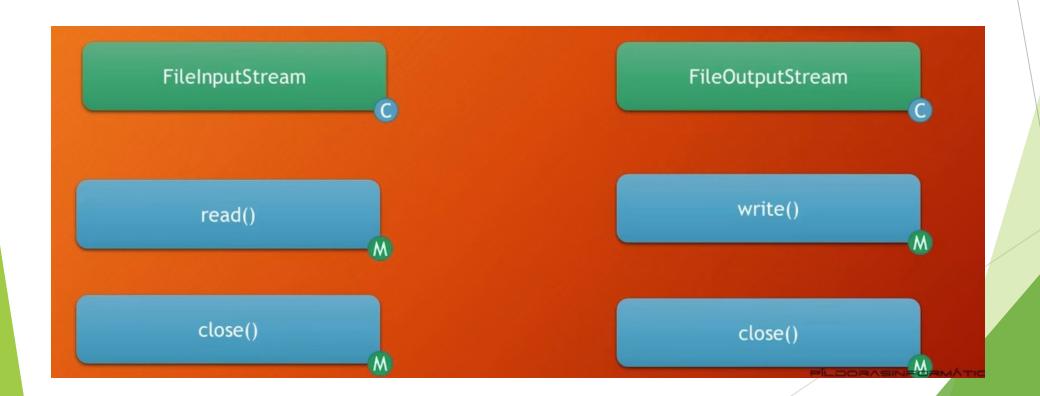


Utilizamos el paquete java.io.*

- ► Leyendo flujo de Bytes:
 - Permite enviar o recibir cualquier tipo de archivo (no solo de texto) desde o hacia nuestro programa Java



- ► Leyendo flujo de Bytes:
 - ► Visita la API y familiarízate con las clases y sus métodos



Leyendo flujo de bytes:

java.io

Class FileInputStream

java.lang.Object java.io.InputStream java.io.FileInputStream

All Implemented Interfaces:

Closeable, AutoCloseable

Methods	
Modifier and Type	Method and Description
int	available() Returns an estimate of the number of remaining bytes that can be read (or skipped over) from this input stream without blocking by the next invocation of a method for this input stream.
void	close () Closes this file input stream and releases any system resources associated with the stream.
protected void	finalize() Ensures that the close method of this file input stream is called when there are no more references to it.
FileChannel	<pre>getChannel()</pre> Returns the unique FileChannel object associated with this file input stream.
FileDescriptor	getFD() Returns the FileDescriptor object that represents the connection to the actual file in the file system being used by this FileInputStream.
int	read() Reads a byte of data from this input stream.
int	read(byte[] b) Reads up to b.length bytes of data from this input stream into an array of bytes.
int	<pre>read(byte[] b, int off, int len) Reads up to len bytes of data from this input stream into an array of bytes.</pre>
long	<pre>skip(long n) Skips over and discards n bytes of data from the input stream.</pre>

Constructors

Constructor and Description

FileInputStream(File file)

Creates a FileInputStream by opening a connection to an actual file, the file named by the File object file in the file system.

FileInputStream(FileDescriptor fdObj)

Creates a FileInputStream by using the file descriptor fdObj, which represents an existing connection to an actual file in the file system.

FileInputStream(String name)

Creates a FileInputStream by opening a connection to an actual file, the file named by the path name name in the file system.

- ► ACTIVIDAD 1: Realiza el siguiente programa
 - ► Ajusta la ruta y la imagen

```
package accesoafichero;
import java.io.*;
public class LecturaEscrituraBytes {
   public static void main(String[] args) {
        try{
            boolean salida=false;
            int byteEntrada;
            int cantidadBytes=0;
            FileInputStream flujoArchivo = new FileInputStream("/Users/alejandrogonzalezredondo/Desktop/"
                    + "EjemplosLecturaFicheros/EjemploBytes/kakashi.jpg");
            while (salida==false){
                byteEntrada=flujoArchivo.read();
                System.out.println(byteEntrada);
                cantidadBytes++;
                if (byteEntrada==-1)
                    salida=true;
            flujoArchivo.close();
            System.out.println("El archivo tiene " + cantidadBytes + " bytes");
```

► ACTIVIDAD 2: Crea una copia del programa anterior y modificalo para que guarde los bytes en un array.

Escribiendo flujo de bytes:

java.io

Class FileOutputStream

java.lang.Object java.io.OutputStream java.io.FileOutputStream

All Implemented Interfaces:

Clos

Methods **Modifier and Type Method and Description** void close() Closes this file output stream and releases any system resources associated with this stream. protected void Cleans up the connection to the file, and ensures that the close method of this file output stream is called when there are no more references to this stream. FileChannel Returns the unique FileChannel object associated with this file output stream. FileDescriptor Returns the file descriptor associated with this stream. void write(byte[] b) Writes b.length bytes from the specified byte array to this file output stream. void write(byte[] b, int off, int len) Writes len bytes from the specified byte array starting at offset off to this file output stream. void write(int b) Writes the specified byte to this file output stream.

Constructors

Constructor and Description

FileOutputStream(File file)

Creates a file output stream to write to the file represented by the specified File object.

FileOutputStream(File file, boolean append)

Creates a file output stream to write to the file represented by the specified File object.

FileOutputStream(FileDescriptor fdObj)

Creates a file output stream to write to the specified file descriptor, which represents an existing connection to an actual file in the file system.

FileOutputStream(String name)

Creates a file output stream to write to the file with the specified name.

FileOutputStream(String name, boolean append)

Creates a file output stream to write to the file with the specified name.

ACTIVIDAD 3: Modifica el programa anterior para que sea capaz de crear un fichero exactamente igual que el anterior en la misma carpeta y con el mismo nombre_copia.