### JAVA PROGRAMMING COURSE

# **EXERCISE**

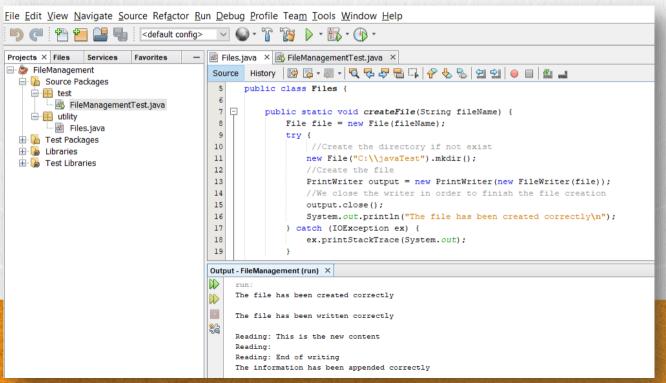
## FILE MANAGEMENT IN JAVA



#### **JAVA PROGRAMMING COURSE**

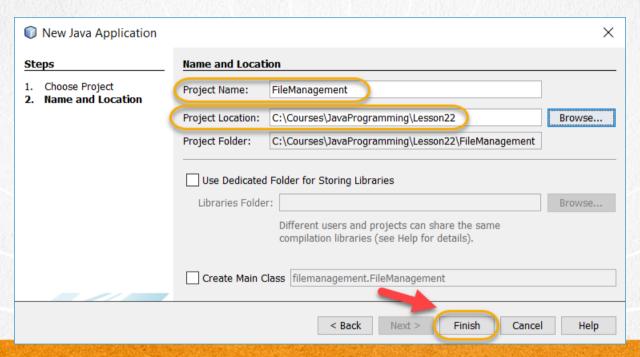
#### **EXERCISE OBJECTIVE**

Implement the concept of file management in Java. At the end we should observe the following:



#### 1. CREATE A NEW PROJECT

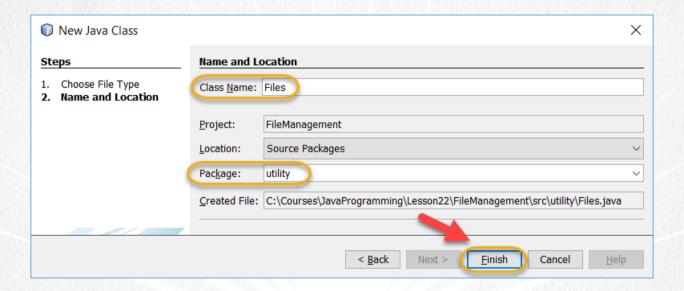
## Create a new project:



#### **JAVA PROGRAMMING COURSE**

#### 2. CREATE A NEW CLASS

#### Create a new class:



#### **JAVA PROGRAMMING COURSE**

## Files.java:

```
package utility;
import java.io.*;
public class Files {
    public static void createFile(String fileName) {
        File file = new File(fileName);
        try {
             //Create the directory if not exist
            new File("C:\\javaTest").mkdir();
            //Create the file
            PrintWriter output = new PrintWriter(new FileWriter(file));
            //We close the writer in order to finish the file creation
            output.close();
            System.out.println("The file has been created correctly\n");
        } catch (IOException ex) {
            ex.printStackTrace(System.out);
```

## Files.java:

```
public static void writeFile(String fileName, String content) {
    File file = new File(fileName);
    try {
        try (PrintWriter output = new PrintWriter(new FileWriter(file))) {
            output.println(content);
            output.println();
            output.println("End of writing");
        System.out.println("The file has been written correctly\n");
    } catch (IOException ex) {
        ex.printStackTrace(System.out);
```

#### **JAVA PROGRAMMING COURSE**

## <u>Files.java:</u>

```
public static void readFile(String fileName) {
    File file = new File(fileName);
    try {
        try (BufferedReader input = new BufferedReader(new FileReader(file))) {
            String reading:
            reading = input.readLine();
            while (reading != null) {
                System.out.println("Reading: " + reading);
                reading = input.readLine();
    } catch (IOException ex) {
        ex.printStackTrace(System.out);
```

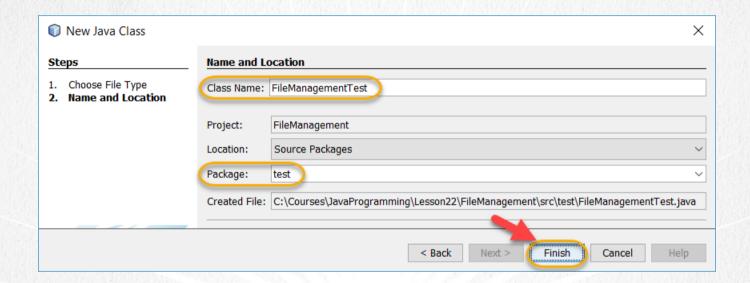
## <u>Files.java:</u>

```
public static void appendFile(String fileName, String content) {
    File file = new File(fileName);
    try {
        try (PrintWriter output = new PrintWriter(new FileWriter(file, true))) {
            output.println(content);
            output.println();
            output.println("End of append");
        System.out.println("The information has been appended correctly\n");
    } catch (IOException ex) {
        ex.printStackTrace(System.out);
```

#### **JAVA PROGRAMMING COURSE**

## **PASO 4. CREATE A NEW CLASS**

#### Create a new class:



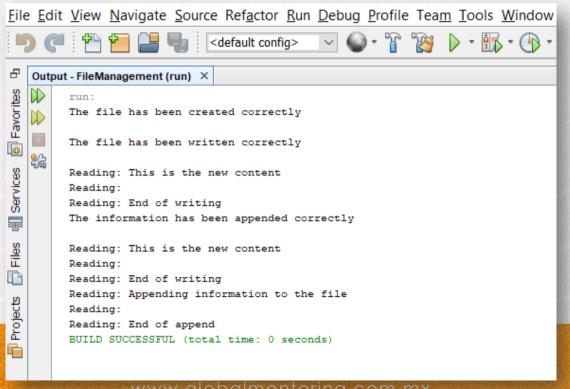
#### **JAVA PROGRAMMING COURSE**

## FileManagementTest.java:

```
package test;
import static utility.Files.*;
public class FileManagementTest {
    //Note: The folder on which you are going to work must already be created
    //And if necessary write permissions must be assigned to the folder
    private static final String FILE NAME = "c:\\javaTest\\javaFile.txt";
    public static void main(String[] args) {
        //Create a file
        createFile(FILE NAME);
        //Write to a file
        writeFile(FILE NAME, "This is the new content");
        //Read from a file
        readFile(FILE NAME);
        //Append to a file
        appendFile(FILE NAME, "Appending information to the file");
        //Leer de un archivo
        readFile(FILE NAME);
```

#### 6. EXECUTE THE PROJECT

#### The result is as follows:



### **EXERCISE CONCLUSION**

- With this exercise we have put into practice the concept of File Management in Java.
- We have seen several operations, such as creating, writing, reading and append information to a file. With this, we have the bases to understand the operation of file management from Java.



#### **JAVA PROGRAMMING COURSE**

### **ONLINE COURSE**

# JAVA PROGRAMING

By: Eng. Ubaldo Acosta



#### **JAVA PROGRAMMING COURSE**