1)import java.io.File;

import java.io.FilenameFilter;

public class GetFilesWithExtension {

public static void main(String[] args) {

// Specify the folder path and desired extension (case-insensitive)

String folderPath = "C:\\your\\folder\\path"; // Replace with your actual path

String extension = ".txt"; // Replace with your desired extension

File folder = new File(folderPath);

// Check if the folder exists

if (!folder.exists()) {

System.out.println("Folder does not exist.");

return;

}

// Get list of files with the specified extension

File[] files = folder.listFiles(new FilenameFilter() {

@Override

public boolean accept(File dir, String name) {

return name.toLowerCase().endsWith(extension.toLowerCase());

}

});

// Print the names of the found files

if (files != null && files.length > 0) {

System.out.println("Files with extension " + extension + " in " + folderPath + ":");

for (File file : files) {

System.out.println(file.getName());

}

} else {

System.out.println("No files with extension " + extension + " found in " + folderPath);

}

}

}

2)

import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;

public class ReadNumbersFromFile {

public static void main(String[] args) {

String filename = "test.txt";

try {

Scanner scanner = new Scanner(new File(filename));

System.out.println("Content of " + filename + ":");

while (scanner.hasNext()) {

int number = scanner.nextInt();

if (number > 0) {

throw new PositiveNumberException(number);

}

}

scanner.close();

System.out.println("All numbers are non-positive.");

} catch (FileNotFoundException e) {

System.out.println("Error: File not found.");

} catch (PositiveNumberException e) {

System.out.println(e.getMessage());

}

}

static class PositiveNumberException extends Exception {

public PositiveNumberException(int number) {

super("Positive number found: " + number);

}

}

}

3)

import java.io.File;

import java.io.FileNotFoundException;

import java.util.HashMap;

import java.util.Map;

import java.util.Scanner;

public class FindMostCommonWords {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter directory name: ");

String directoryName = scanner.nextLine();

Map<String, Integer> wordCounts = new HashMap<>();

try {

File directory = new File(directoryName);

if (!directory.isDirectory()) {

throw new IllegalArgumentException("Not a directory");

}

for (File file : directory.listFiles()) {

if (file.isFile()) {

processFile(file, wordCounts);

}

}

int maxFrequency = 0;

for (int frequency : wordCounts.values()) {

maxFrequency = Math.max(maxFrequency, frequency);

}

System.out.println("Most common words:");

for (String word : wordCounts.keySet()) {

if (wordCounts.get(word) == maxFrequency) {

System.out.println("Word: " + word + ", Frequency: " + maxFrequency);

}

}

} catch (FileNotFoundException e) {

System.out.println("Error: Directory not found.");

} catch (IllegalArgumentException e) {

System.out.println(e.getMessage());

}

}

private static void processFile(File file, Map<String, Integer> wordCounts) throws FileNotFoundException {

try (Scanner fileScanner = new Scanner(file)) {

while (fileScanner.hasNext()) {

String word = fileScanner.next().toLowerCase(); // Make words case-insensitive

wordCounts.put(word, wordCounts.getOrDefault(word, 0) + 1);

}

}

}

}