package threadsPractice;

import java.io.File;

import java.io.FileNotFoundException;

import java.util.ArrayList;

import java.util.List;

import java.util.Scanner;

public class ExceptionCheck {

public static void main(String[] args) {

Scanner a = new Scanner(System.in);

System.out.println("Enter the input string");

String inputStr = a.nextLine();

List<String> outputList = new ArrayList<>();

Implementation impl = new Implementation();

outputList = impl.numberCheck(inputStr);

System.out.println(outputList);

System.out.println("Enter the file path");

String inputPath = a.nextLine();

String fileCheckOutpiut = impl.fileCheck(inputPath);

System.out.println(fileCheckOutpiut);

}

}

class Implementation{

public String fileCheck(String inputPath) {

try {

File file = new File(inputPath);

if(file.exists()) {

return "File Found";

}else {

throw new FileNotFoundException();

}

} catch (FileNotFoundException e) {

e.printStackTrace();

return e.getMessage();

}

}

public List<String> numberCheck(String inputStr) {

String a = null;

List<String> chars = new ArrayList<>();

;

for (int i = 0; i < inputStr.length(); i++) {

try {

if (Character.isDigit(inputStr.charAt(i))) {

chars.add(String.valueOf(inputStr.charAt(i)));

} else {

throw new NumberFormatException();

}

} catch (NumberFormatException e) {

a = "For input string " + '"' + inputStr.charAt(i) + '"';

chars.add(a);

}

}

return chars;

}

}