Task 01 - 03

package Tasks1to3;

import java.io.BufferedReader;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.IOException;

public class NLArray {

private String newLine="";

public String[] wordTokenize(String filename) throws IOException {

BufferedReader file= getFile(filename);

while(file.ready()){

String line;

while((line=file.readLine())!=null) {

removeExtraCharacters(line);

newLine += " ";

}

}

return newLine.split(" ");

}

public void ExtractEmails(String filename) throws IOException {

FileReader fr=new FileReader(filename);

BufferedReader br=new BufferedReader(fr);

while(br.ready()){

String line;

while((line=br.readLine())!=null){

splitToWords(line);

}

}

}

public void cropCenterPart(int arr[][]){

System.*out*.println("Cropping center part.");

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

for(int j=0; j<arr.length; j++){

if((i==0 && j<arr.length) || ((i>0 && i<arr.length-1 && j==0) || (i>0 && i<arr.length-1 && j==arr.length-1)) || (i==arr.length-1))

System.*out*.print(" ");

else

System.*out*.print(arr[i][j]+" ");

}

System.*out*.println();

}

}

public void extractBoundaries(int arr[][]){

System.*out*.println("Extracting outer boundaries.");

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

for(int j=0; j<arr.length; j++){

if((i==0 && j<arr.length) || ((i>0 && i<arr.length-1 && j==0) || (i>0 && i<arr.length-1 && j==arr.length-1)) || (i==arr.length-1))

System.*out*.print(arr[i][j]+" ");

else

System.*out*.print(" ");

}

System.*out*.println();

}

}

public boolean NConRep(int[][] arr){

int first;

outer:

for (int[] ints : arr) {

first = ints[0];

for (int j = 0; j < arr.length; j++) {

if (ints[j] != first) {

continue outer;

}

}

return true;

}

return false;

}

// ####################### Backend Side ##################################

private BufferedReader getFile(String filename) throws FileNotFoundException {

FileReader fr=new FileReader(filename);

BufferedReader br=new BufferedReader(fr);

return br;

}

private void removeExtraCharacters(String line){

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

if(line.charAt(i)!=','&&line.charAt(i)!=':'&&line.charAt(i)!='.'){

newLine+=line.charAt(i);

}

}

}

private void splitToWords(String line){

String[] words=line.split(" ");

for(String word:words){

*verifyWords*(word);

}

}

private static void verifyWords(String word){

if(word.contains("@")&&word.contains(".")){

System.*out*.println(word);

}

}

}

Main method class