**import java.io.BufferedReader;**

**import java.io.FileReader;**

**import java.io.IOException;**

**import java.util.\*;**

**import java.util.StringTokenizer;**

**public class MentalHealth {**

**static Scanner scan = new Scanner(System.in);**

**static ArrayList<MentalHealthObject> resources;**

**public static void main (String[] args) {**

**welcomeMessage();**

**resources = new ArrayList<MentalHealthObject>();**

**readFile();**

**String message = inputMessage();**

**readAndProcessMessage(message);**

**printResources();**

**askForMoreResources();**

**}**

**private static void welcomeMessage() {**

**System.out.println("Welcome to the Mental Health Database!");**

**System.out.println("This database is designed to help match you or someone you concern for with the most suitable resource(s).");**

**}**

**//reads the keywords after the semicolons and adds it to an arrayList**

**private static void readFile() {**

**try {**

**BufferedReader rd = new BufferedReader(new FileReader("mentalhealthdatabase.txt"));**

**while (true) {**

**String line = rd.readLine();**

**if (line == null) break;**

**MentalHealthObject resource = new MentalHealthObject(line);**

**resources.add(resource);**

**}**

**rd.close();**

**}**

**catch (IOException ex) {**

**System.out.println("Error has occurred.");**

**}**

**}**

**private static String inputMessage() {**

**System.out.println("Please proceed to just write down your thoughts and struggles...");**

**String message = scan.nextLine();**

**return message;**

**}**

**private static void readAndProcessMessage(String message) {**

**StringTokenizer tokenizer = new StringTokenizer(message," ");**

**while(tokenizer.hasMoreTokens()) {**

**String word = tokenizer.nextToken();**

**for(int i = 0; i < resources.size(); i++) {**

**If (resources.get(i).containKeyWords(word.toLowerCase())) {**

**resources.get(i).incrementOccurence();**

**}**

**}**

**}**

**}**

**private static void printResources() {**

**int maxValue = 0;**

**int maxIndex = 0;**

**for(int i = 0; i < resources.size(); i++) {**

**if (resources.get(i).getOccurences() > maxValue) {**

**maxValue = resources.get(i).getOccurences();**

**maxIndex = i;**

**}**

**}**

**System.out.println("We think the following resource is most applicable based on your thoughts and struggles...");**

**System.out.println(resources.get(maxIndex).getOutputLine());**

**System.out.println(); //stylistic purposes**

**}**

**private static void askForMoreResources() {**

**System.out.println("Would you like to see more resources applicable to you? (Y/N)");**

**String yesOrNo = scan.nextLine();**

**System.out.println(); //stylistic purposes**

**if (yesOrNo.equals("Y")) {**

**for(int i = 0; i < resources.size(); i++) {**

**if (resources.get(i).getOccurences() >= 1) {**

**System.out.println(resources.get(i).getOutputLine());**

**}**

**}**

**}**

**System.out.println("Thank you for utilizing our database. Please do not hesitate to reach out to any of these resources.");**

**}**

**}**

**import java.util.ArrayList;**

**import java.util.StringTokenizer;**

**public class MentalHealthObject {**

**private String line;**

**private int occurences;**

**ArrayList<String> keyWords = new ArrayList<String>();**

**public MentalHealthObject(String fileLine) {**

**line = fileLine;**

**occurences = 0;**

**loadKeyWords(line);**

**}**

**public boolean containKeyWords(String inputWord) {**

**while (!Character.isLetter(inputWord.charAt(inputWord.length() - 1))) {**

**inputWord = inputWord.substring(0, inputWord.length() - 1);**

**}**

**if (keyWords.contains(inputWord)) {**

**return true;**

**}**

**return false;**

**}**

**public String getOutputLine() {**

**int index = line.indexOf(":") ;**

**return line.substring(0, index);**

**}**

**public void incrementOccurence() {**

**occurences++;**

**}**

**public int getOccurences() {**

**return occurences;**

**}**

**private void loadKeyWords(String line) {**

**int index = line.indexOf(":") + 1;**

**line = line.substring(index);**

**StringTokenizer tokenizer = new StringTokenizer(line," ");**

**while(tokenizer.hasMoreTokens()) {**

**keyWords.add(tokenizer.nextToken().toLowerCase());**

**}**

**}**

**}**