```
import java.util.*;
//import java.util.Arrays;
//import java.util.Scanner;

/**
 * IBL1
 * @author Dennis Kuzminer
 */

public class IBL1
{
  /**
   * main method is pretty much
   * the same as was in the instructions
   */
  public static void main(String[] args){

    Scanner scnr = new Scanner(System.in);
    System.out.println("Enter a string to search for in your input array.");
    String key = scnr.nextLine();
    detectWord(args, key);


    containsNumber(args);

    readWrite(scnr);


    System.out.println("Enter two strings to put in alphabetical order:");
    String[] alphaArray = new String[2];
    System.out.println("Enter the first string:");
    alphaArray[0] = scnr.nextLine();
    System.out.println("Enter the second string:");
    alphaArray[1] = scnr.nextLine();
    alphaOrder(alphaArray);

    nameGame(scnr);

  }



  /**
   * Checks to see if key is an elem of stringArr and prints its index
   * @param stringArr The phrase or in this case whatever is inputted on the command line
```

```
 * @param key The word that is being searched for
 */


public static void detectWord(String[] stringArr, String key){
  //assumes that the word is not in stringArr unless it is found in the loop
  boolean isTheWordFound = false;
  for(int i = 0; i < stringArr.length; i++){
    if(stringArr[i].equals(key)){
      //accounts for only the first instance of the word
      System.out.println("Your indicated word was found at index " + i + " in your String array.");
      //set to true so the code below does not run
      isTheWordFound = true;
    }
  }
  if(!isTheWordFound){
    System.out.println("Your indicated word was not found in your String array.");
  }
}


/**
 * Checks to see if there is a digit in stringArr
 * @param stringArr The inputted string array in this case command line
 * Prints out whether each word has a digit
 */

public static void containsNumber(String[] stringArr){
  for(int i = 0; i < stringArr.length; i++){
    //i assumed a word would not have a digit
    boolean hasDigit = false;
    for(int j = 0; j < stringArr[i].length();j++){
      //loops through each letter an checks if it is a digit
      if(Character.isDigit(stringArr[i].charAt(j))){
        hasDigit = true;
      }
    }
    if(hasDigit){
      System.out.println("Pass code at index " + i + " contains a digit.");
    }
    if(!hasDigit){
      System.out.println("Pass code at index " + i + " does not contain a digit.");
    }
  }
}
```

```
/**
 * Takes input and removes all white space from text and prints it
 * @param scnr Scans for the phrase to modify
 */

public static void readWrite(Scanner scnr){
  while(true){
    //loops forever until there is some white space
    System.out.println("Enter a string containing at least one whitespace.");
    String str = scnr.nextLine();
    //if there is a white space replace all of it with an empty string
    if(str.indexOf(" ") != -1){
      System.out.println("Your two strings, with no whitespace:");
      System.out.println(str.replaceAll(" ",""));
      break;
    }
    if(str.indexOf(" ") == -1){
      System.out.println("Error: No whitespace in string.");
    }
  }
}

/**
 * Takes an string array, sorts it, concatinates it, prints it in alphabetical order
 * Then, takes that and stores it into another array
 * @param stringArr The inputted strings from the main
 * @return returnArr The concatinated string is put into an array
 */

public static String[] alphaOrder(String[] stringArr){
  Arrays.sort(stringArr);
  System.out.println("Your two strings, concatenated in alpha order:");
  System.out.println(stringArr[0] + stringArr[1]);
  String[] returnArr = new String[1];
  returnArr[0] = stringArr[0] + stringArr[1];
  return returnArr;
}


/**
 * Takes the inputted first name and replaces the
 * first letter with "Banana-fana fo-f"
 * @param scnr Scans for first name
 */
```

```
  public static void nameGame(Scanner scnr){
    System.out.println("Input your first name: ");
    String name = scnr.nextLine();
    System.out.println("Banana-fana fo-f" + name.substring(1, name.length()));
  }
}
```