Aim: To practice with arrays and methods.

1. Download the application Lab4Program1.java from the folder for Lab 4 on Blackboard (it may also be available on the public drive of the lab machines.) Open the program with the editor of your choice and observe the following:

Two statements from the JOptionPane class take care of the input and output of Strings.

   JOptionPane.showMessageDialog(null, String) simply displays the String as a message in a window and waits for the user to click OK.

   Compile and run the program.

2. Note that no matter what word you type into the input dialog, the program always answers that the word is not on the list, because the method wordIsThere simply returns false.

   Rewrite the method wordIsThere so that it searches the array for the given word and returns true only if the word is on the list. Remember that you cannot compare Strings with the "==" operator. You must use the equals method of class String, for example:

   if(s1.equals(s2)) will compare String s1 with String s2

   Compile and run the program.

3. The program only works for one word at a time. Insert an if statement that will cause the program to terminate (call System.exit(0)) if the word entered is "STOP". Surround the code that does the input, search and output with an infinite while loop (while(true){code}). Compile and run the program.