



## **Guided Exercise 3.2: Searching, comparing, and executing ABL code**

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# Guided Exercise 3.2: Searching, comparing, and executing ABL code

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## Overview

In this Guided Exercise, you will search for text in your workspace, compare files, and execute ABL code.

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**Important:** You must complete this Guided Exercise to perform subsequent Guided Exercises in this course.

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The exercise steps take approximately 15 minutes to complete.

## Before you begin

Before you begin this Guided Exercise, you must:

- Set up your exercise environment, if you have not done so already. See the Before you begin module for details.
- Complete the steps of Guided Exercise 3.1, if you have not done so already.
- Ensure the Database Server for the sports2020 database is started.

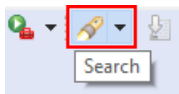
## Location of files:

Exercise files: C:\progress\_education\openedge\DeveloperStudio\Exercise.

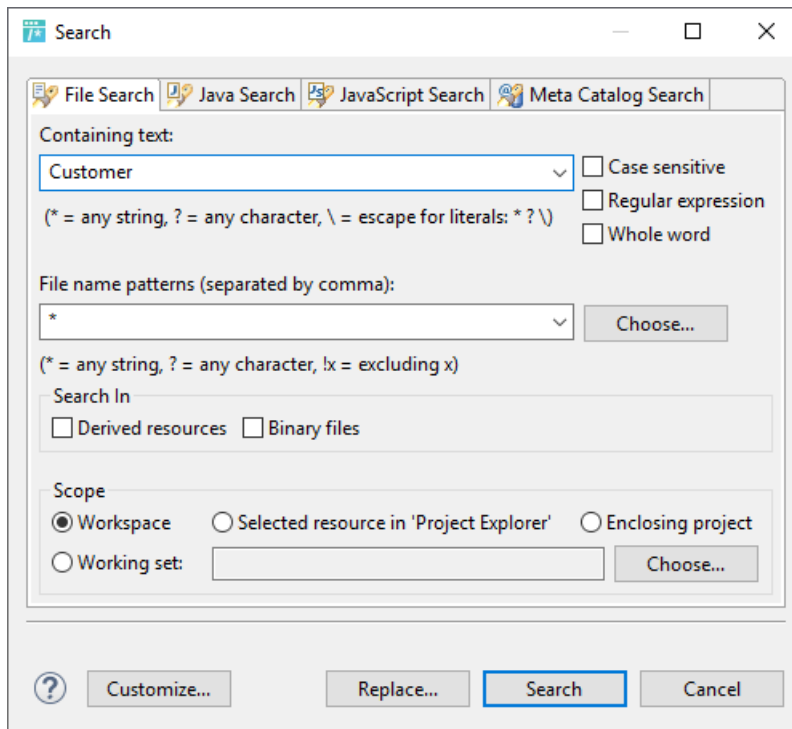
## Part 1—Searching for text within the files of the workspace

Next, you will search for text in the files of your workspace or project.

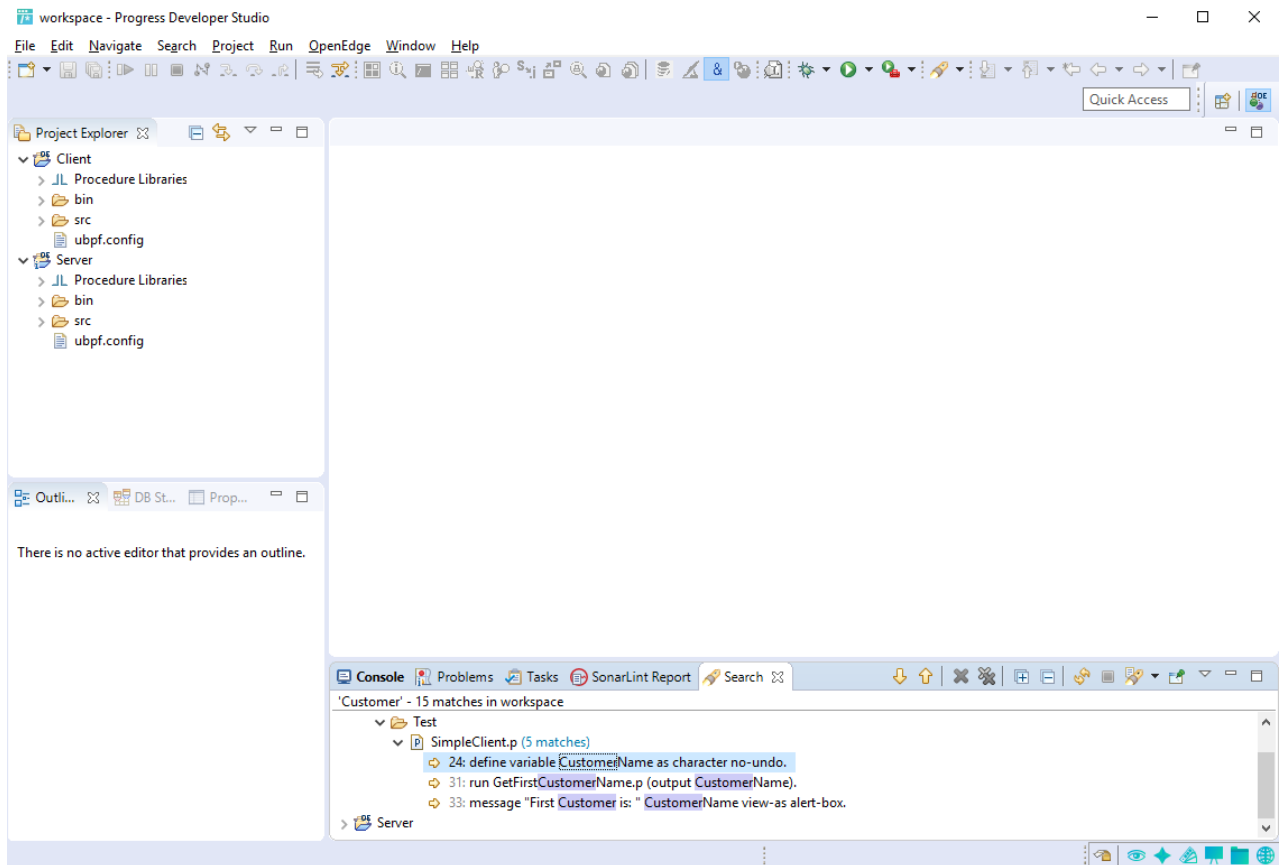
1. Click the Search icon



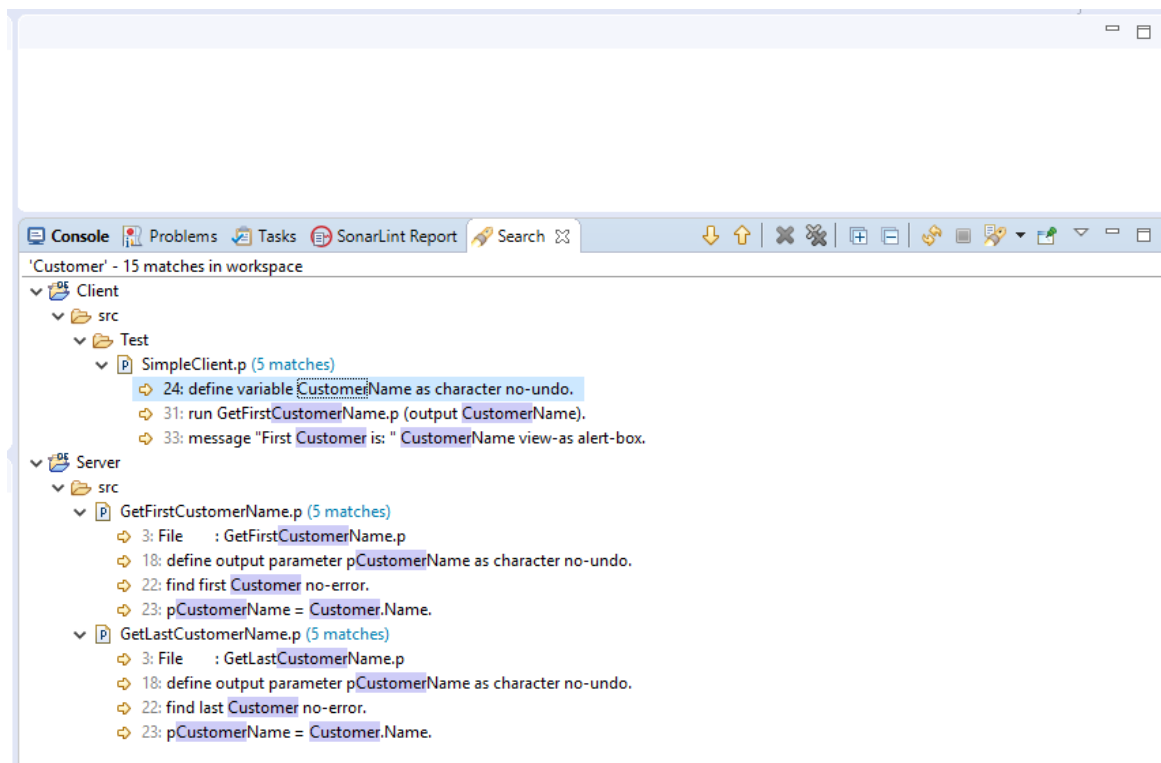
2. In the Search window that opens, type **Customer**.



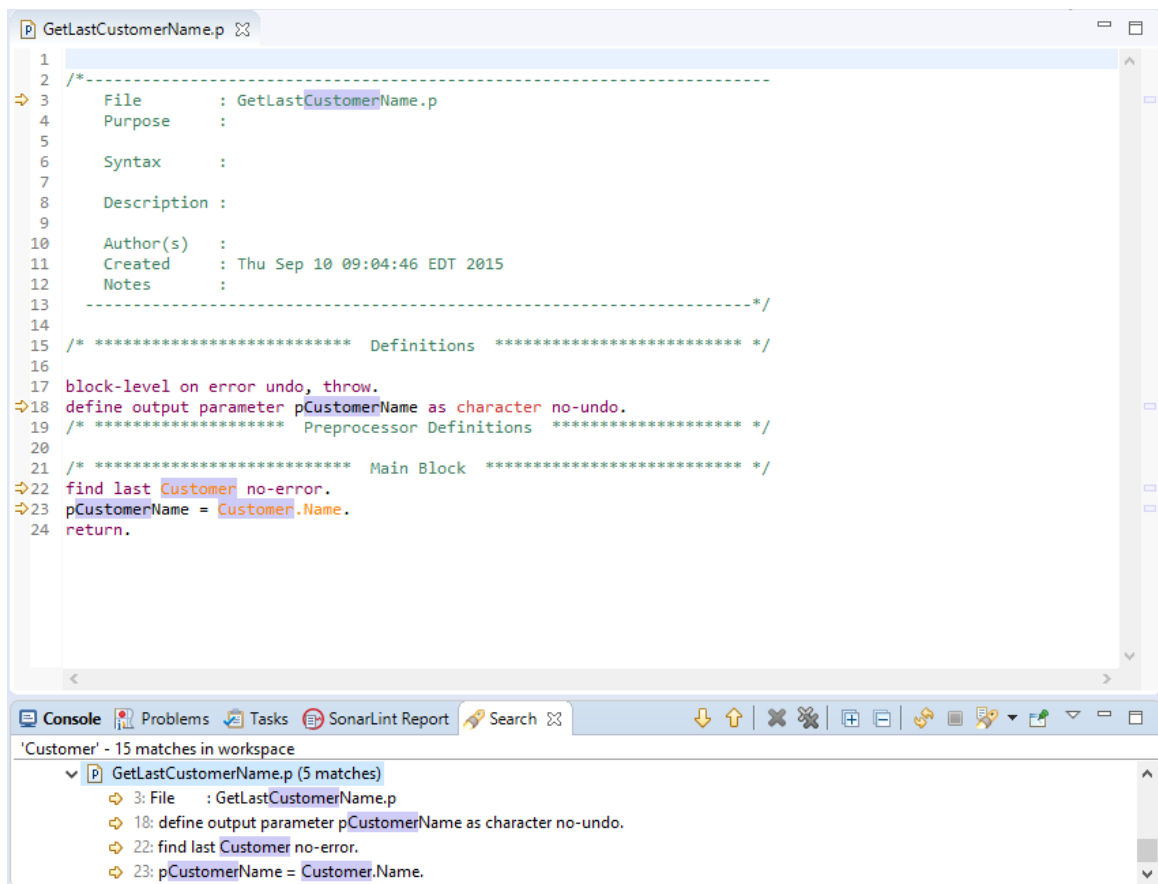
3. Click **Search**.
4. A **Search** tab opens in the lower part of your screen. Scroll through the search results.



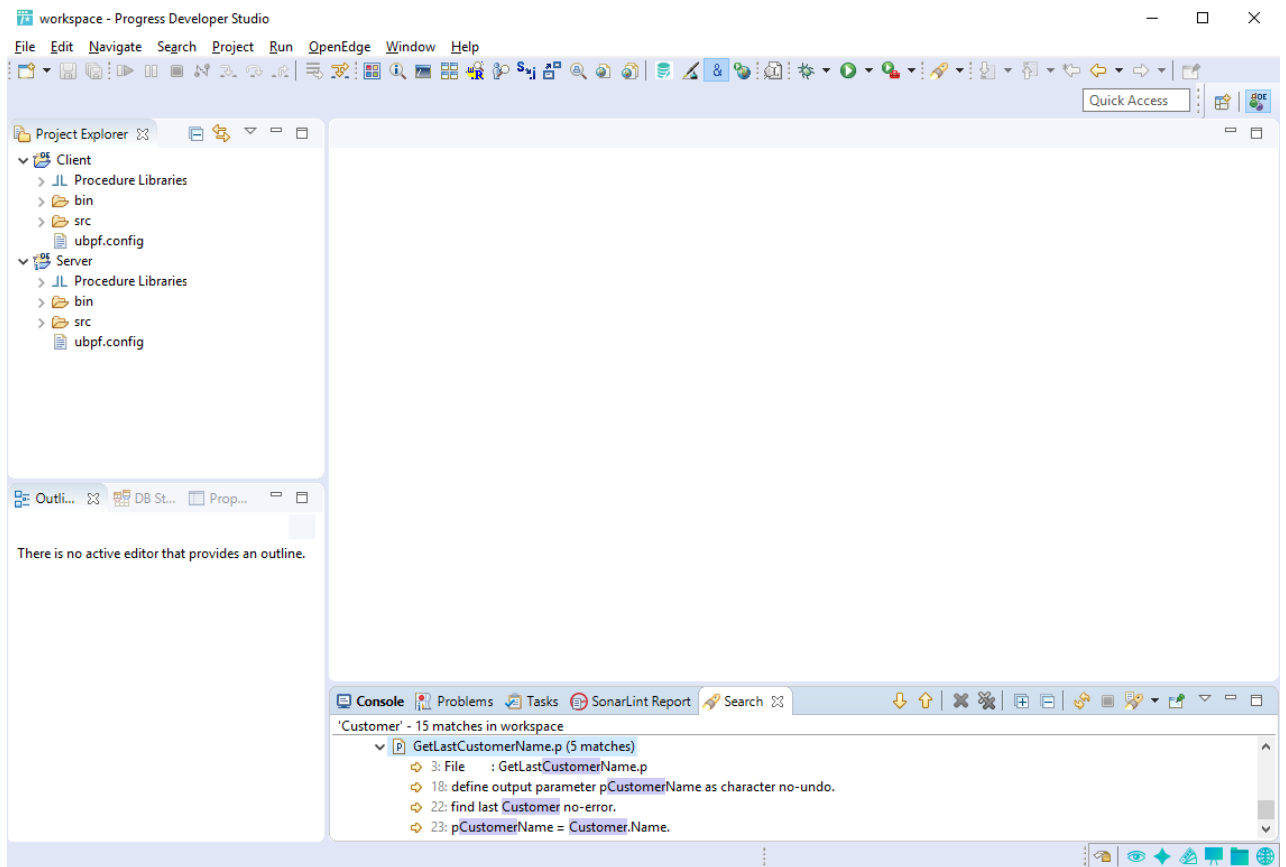
5. You can expand and contract the tree view that shows all occurrences of the string in the workspace.



6. Double-click one of the occurrences highlighted in the tree view of the search. When you double-click an occurrence, the relevant file opens with the cursor set at the relevant location.



7. Close any open files.
8. Close the Search view by clicking the “X” in the Search tab.



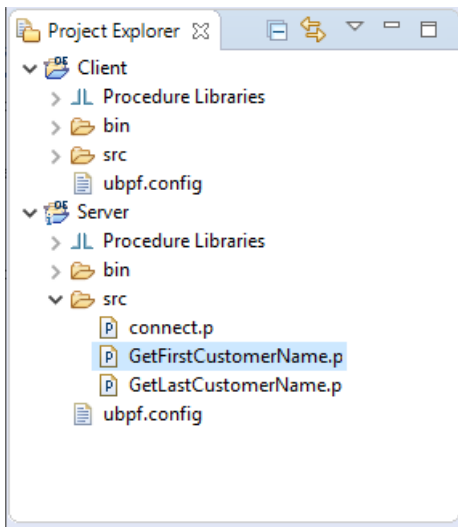
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## Part 2—Comparing files

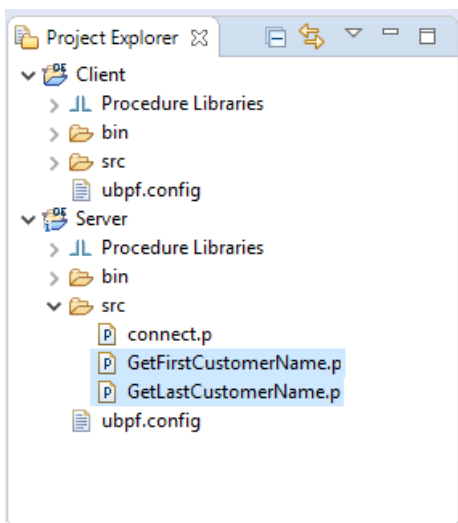


Next, you will compare two files.

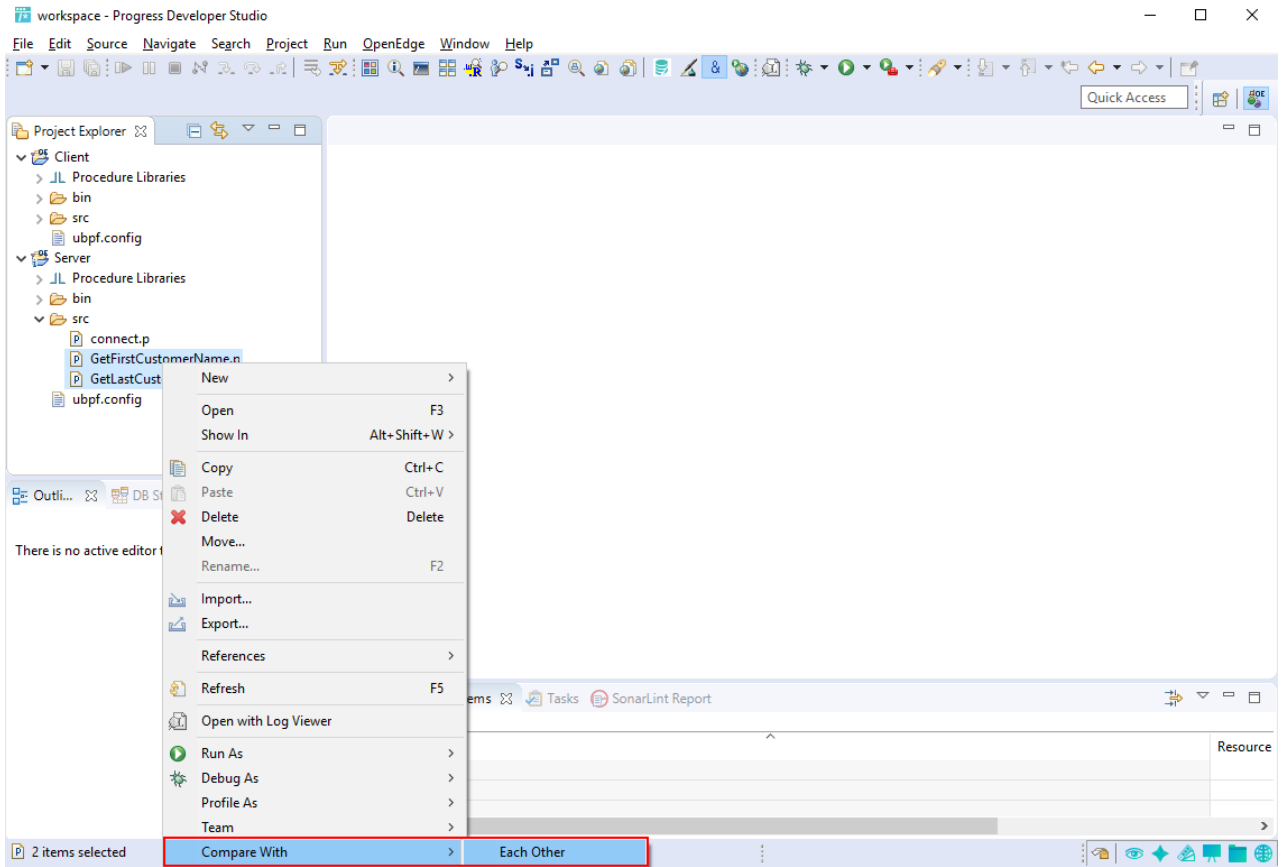
1. In Project Explorer, select **GetFirstCustomerName.p** in the src folder of the Server project.



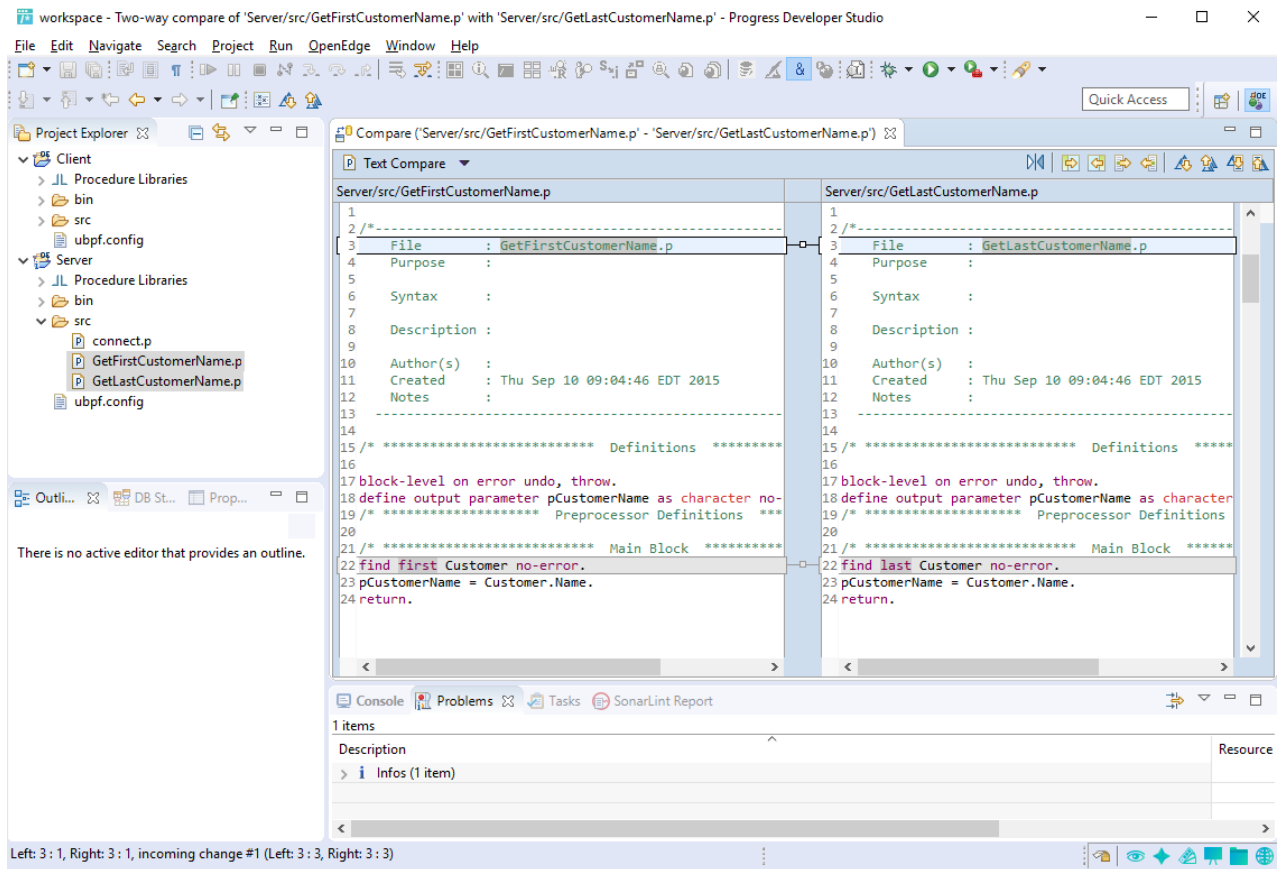
2. While holding the CTRL key, select **GetLastCustomerName.p**. Both files should now be selected.



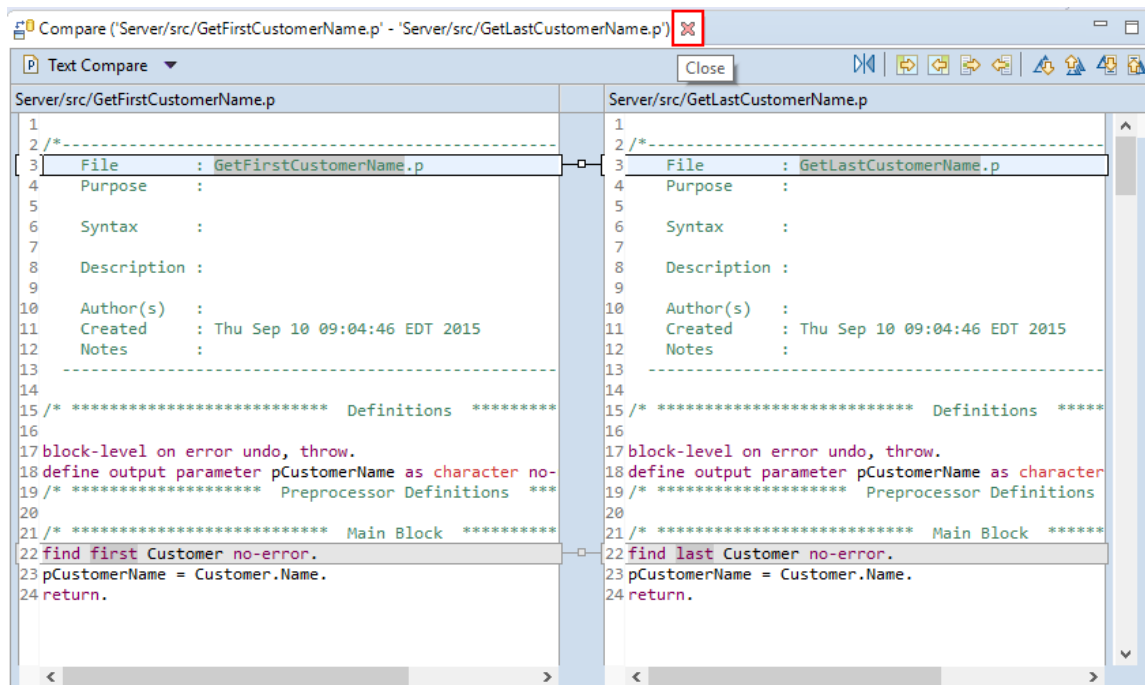
3. Right-click one of the selected files and then select **Compare With > Each Other**.



- A new window opens that shows you a side-by-side comparison of the two files.



- Close the comparison window by clicking the “X” in its tab.

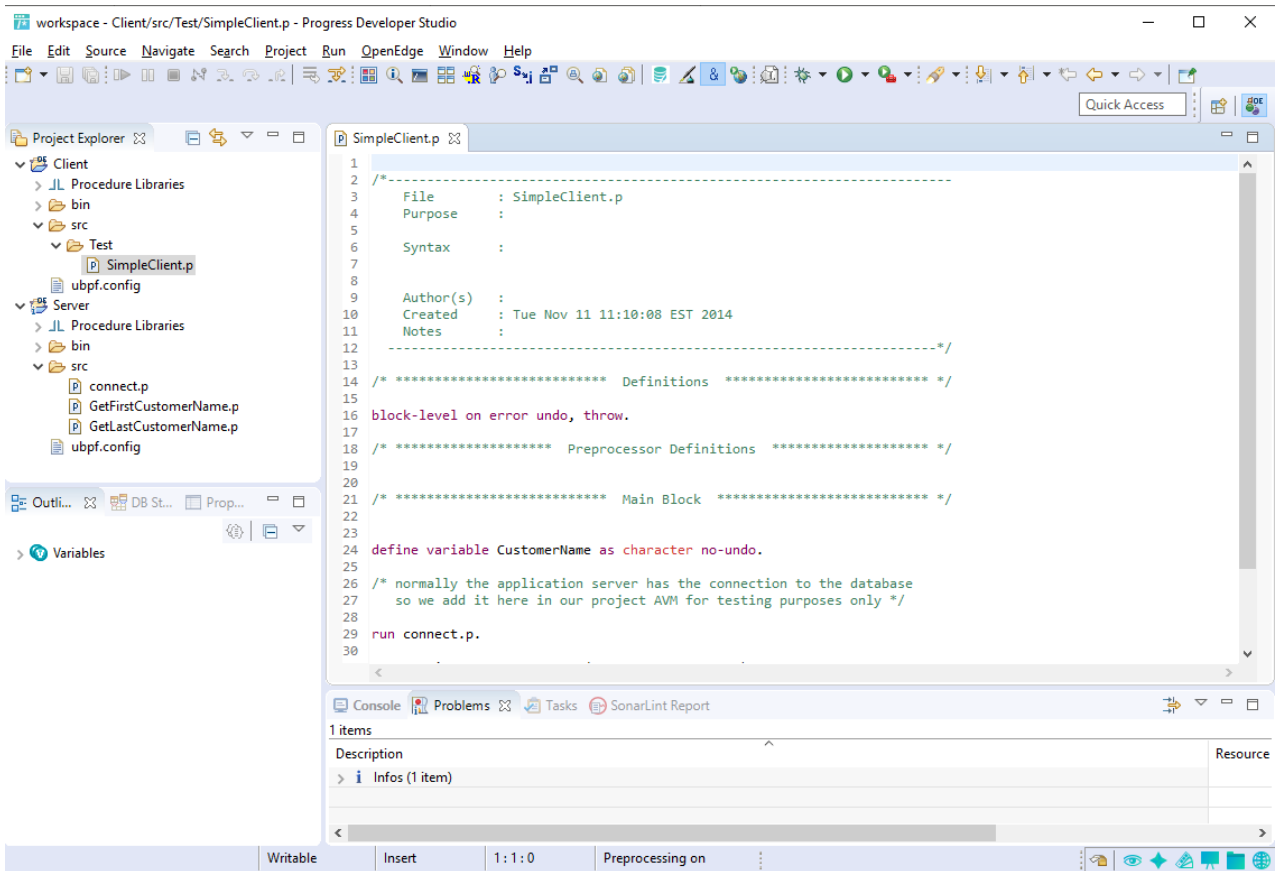


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## Part 3—Executing ABL code

Finally, you will execute ABL code. You will run the **SimpleClient.p** procedure which calls both the **connect.p** procedure and the **FindFirstCustomerName.p** procedure.


1. Open the **SimpleClient.p** procedure in the **src/Test** folder of the **Client** project by double-clicking it.

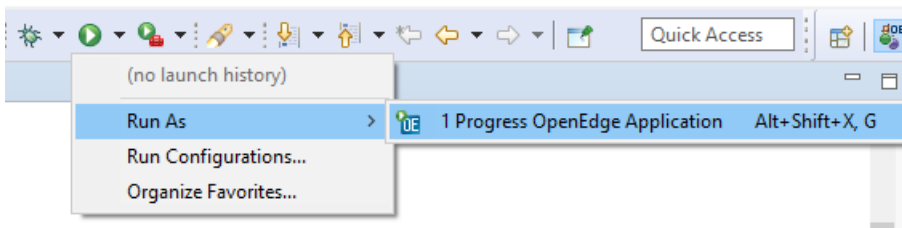


2. Examine the ABL code in this file. It uses the ABL run statement to call the **connect.p** procedure that will connect to the database and then it uses the ABL run statement to call the **GetFirstCustomerName.p** procedure that returns a customer name. Then this procedure displays the customer name in the UI using an ABL message statement.

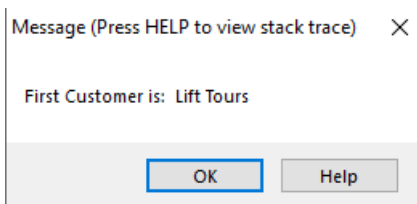
```
SimpleClient.p
7
8
9   Author(s)   :
10  Created    : Tue Nov 11 11:10:08 EST 2014
11  Notes      :
12  -----*/
13
14  /* ***** Definitions ***** */
15
16  block-level on error undo, throw.
17
18  /* ***** Preprocessor Definitions ***** */
19
20
21  /* ***** Main Block ***** */
22
23
24  define variable CustomerName as character no-undo.
25
26  /* normally the application server has the connection to the database
27   so we add it here in our project AVM for testing purposes only */
28
29  run connect.p.
30
31  run GetFirstCustomerName.p (output CustomerName).
32
33  message "First Customer is: " CustomerName view-as alert-box.
34
35  return.
36
```

3. Execute the **SimpleClient.p** procedure as follows:

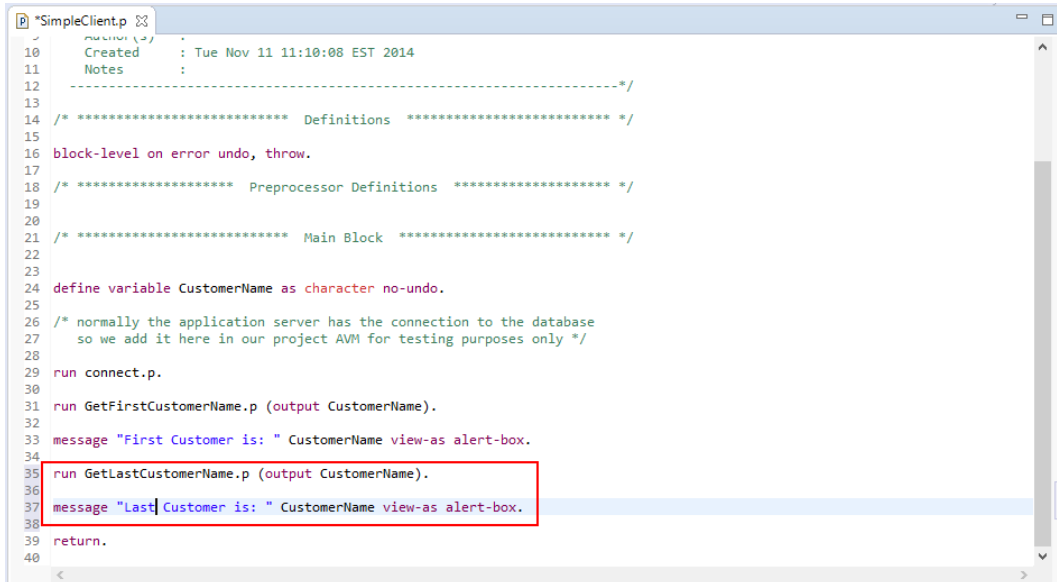
- Select the drop-down run icon .
- Select **Run As > Progress OpenEdge Application**.



- At this time, the procedure is running in the AVM of the Client project. An Alert box will appear. Click **OK**. This ends the execution of the procedure.

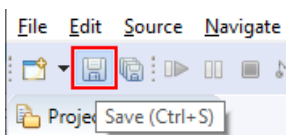


4. Modify **SimpleClient.p** so that it will also run the **GetLastCustomerName.p** procedure and display its value. In OpenEdge Editor, you can copy-paste statements. Make sure that if you paste any ABL code, it is placed before the return statement.

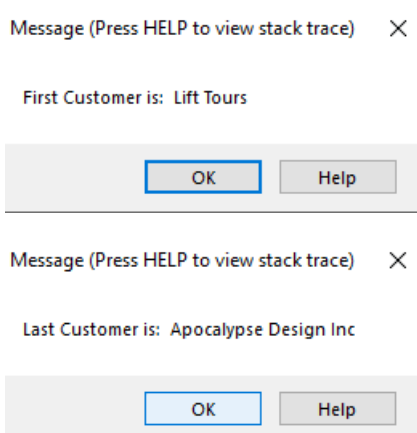


```
10 Created      : Tue Nov 11 11:10:08 EST 2014
11 Notes
12 -----*/
13
14 /* ***** Definitions ***** */
15
16 block-level on error undo, throw.
17
18 /* ***** Preprocessor Definitions ***** */
19
20 /* ***** Main Block ***** */
21
22
23
24 define variable CustomerName as character no-undo.
25
26 /* normally the application server has the connection to the database
27    so we add it here in our project AVM for testing purposes only */
28
29 run connect.p.
30
31 run GetFirstCustomerName.p (output CustomerName).
32
33 message "First Customer is: " CustomerName view-as alert-box.
34
35 run GetLastCustomerName.p (output CustomerName).
36 message "Last Customer is: " CustomerName view-as alert-box.
37
38
39 return.
40
```

5. Save your file.



6. Execute the modified code. Do you see both Alert boxes?



7. Close all files that you opened.

## Wrap-up

In this Guided Exercise, you searched for text in your workspace, compared files, and executed ABL code.