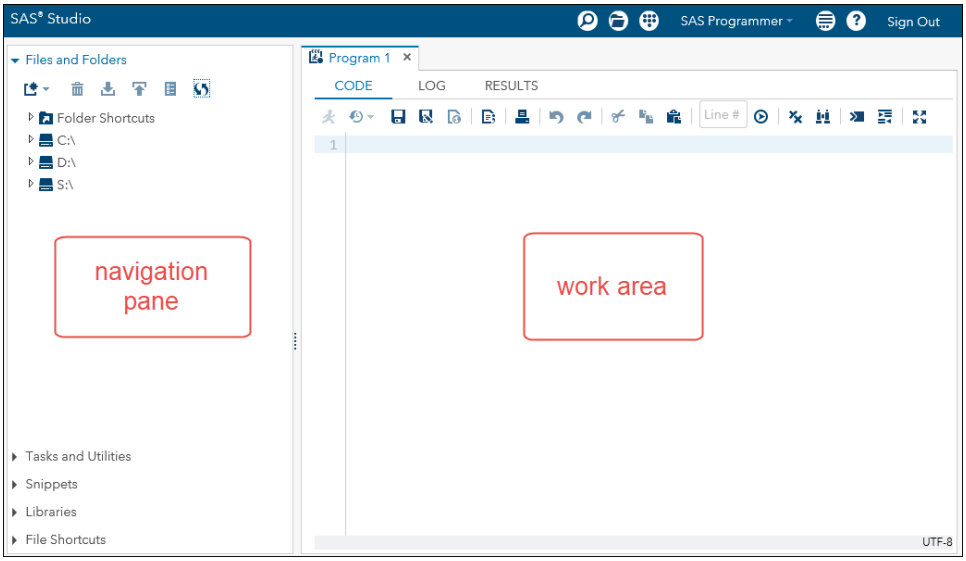
Practice

Level 1 - SAS Studio

1. Exploring the SAS Studio Editor

a. Start SAS Studio. The main window of SAS Studio consists of a navigation pane on the left and a work area on the right.



b. The navigation pane is on the left side of SAS Studio. Multiple sections in the navigation pane provide access to various resources.

	The Open Files section enables you to quickly view and access all of the files that you have opened in your current SAS Studio session.
	The Explorer section enables you to access files and folders from your folder shortcuts, your server file system, and your SAS Content Server locations.
	The Steps section provides nodes that can be added to a SAS Studio flow. A *flow* is a sequence of operations on data.
	The Tasks section enables you to access tasks in SAS Studio. Tasks are based on SAS procedures and generate SAS code and formatted results for you.
	The Snippets section enables you to access your saved snippets. Snippets are lines of commonly used code or text that you can save and reuse.
	The Libraries section provides access your SAS libraries. You can open SAS tables and add them to your programs. You can expand a table and view the columns in that table.

c. On the Program 1 tab, type or copy and paste the following code. This is a simple SAS program called a DATA step.

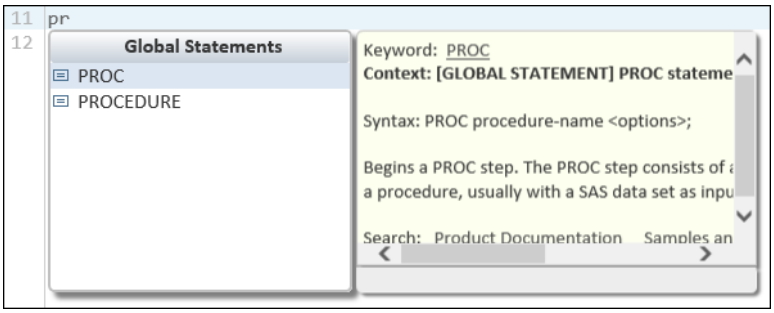
Note: If you copy and paste the program, click **Format Code** to improve the program spacing.

```
data work.shoes;
    set sashelp.shoes;
    NetSales=Sales-Returns;
run;
```

d. Click **Run** or press F3 to submit the code. Examine the LOG and OUTPUT DATA tabs. The RESULTS tab is empty because the program did not create a report.

e. On the CODE tab, add code to compute summary statistics. At the end of the program, begin by typing **pr**. Notice that a prompt appears with valid keywords and syntax help. Press Enter to add the word **proc** to the program. Press the spacebar and type **me** and press Enter again to add **means** to the program.

Note: The Autocomplete prompts also include a window with syntax help and links to documentation and examples.



f. Press the spacebar, use the prompt to select **data=**, and then type **work.shoes**. Press the spacebar and notice that the prompt lists all valid options. Type or select options in the window to complete the following statement:

```
proc means data=work.shoes mean sum;
```

g. Return to the CODE tab and press the spacebar after the SUM option and before the semicolon. Notice that a prompt does not appear. Type **MAXDEC=2** to round statistics to two decimal places.

h. Complete the program by adding the following statements:

```
proc means data=work.shoes mean sum maxdec=2;
    var NetSales;
    class region;
run;
```

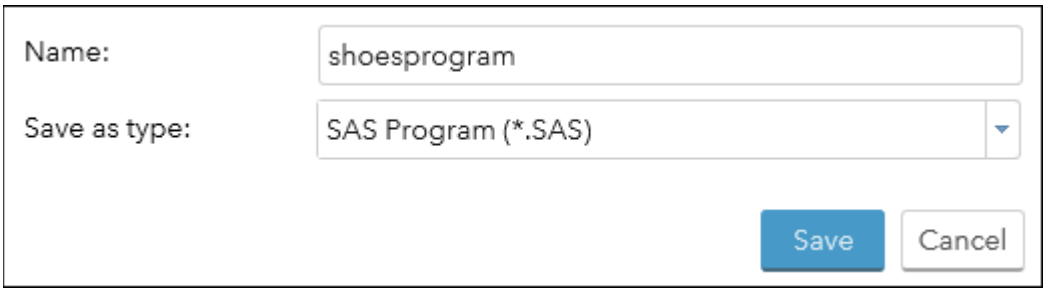
i. Highlight the code from PROC MEANS through RUN and click **Run**, or press F3 to run only the selected portion. Confirm the results.

Note: The default output format in SAS Studio is HTML.

The MEANS Procedure

Analysis Variable : NetSales			
Region	N Obs	Mean	Sum
Africa	56	40508.95	2268501.00
Asia	14	32095.43	449336.00
Canada	37	111522.11	4126318.00
Central America/Caribbean	32	110339.22	3530855.00
Eastern Europe	31	74459.32	2308239.00
Middle East	24	226037.46	5424899.00
Pacific	45	49325.89	2219665.00
South America	54	43183.93	2331932.00
United States	40	132912.10	5316484.00
Western Europe	62	75858.79	4703245.00

j. To save the program, return to the CODE tab and click the **Save As** toolbar button. Navigate to the **output** folder in the course files. Enter **shoesprogram** in the **Name** field and click **Save**. The .sas file extension is automatically added to the file name.



End of Practices