

Submitting a SAS® Program in the SAS® Windowing Environment


Scenario

Write and submit a simple SAS program in the SAS windowing environment and examine the log and results.

Files

- **sashelp.class** – a sample table provided by SAS that includes information about 19 students

Notes

- Programs can be submitted by clicking  (**Submit**) or pressing the F3 key.
- A program generates a log. Depending on the code, a program might also generate results and data.
- To run a subset of a program, highlight the desired code. Then click **Submit** or press F3
- Each time you run a program, new log messages are added to the bottom of the Log window. New results are also added to the bottom of the Results Viewer.


Demo

1. View **Sashelp** sample tables.


Note: **Sashelp** is a collection of sample data files provided by SAS that are useful for testing and practicing. This course references various data files in **Sashelp** to illustrate programming syntax.

- a. Open SAS.
- b. In the Explorer window on the left side, double-click **Libraries** ⇨ **SASHELP**.
- c. Double-click the **Class** table to open and view the data. Close the table.

2. Write and submit a program in the SAS windowing environment.

- a. In the **Editor – Untitled1** window, type or copy and paste the program below. Click  (**Submit**) or press F3 to run the program. If the program runs successfully, the Results Viewer automatically appears and shows the PROC PRINT results.



```
data myclass;  
    set sashelp.class;  
run;  
  
proc print data=myclass;  
run;
```

- b. Click the **Log** button on the bar along the bottom. The log includes the program and messages that are returned from SAS.
- c. Click the Results Viewer to examine the output.
- d. To view the new table created by the program, click the Explorer tab on the left side and click  (**Up one level**). Double-click **Work** and select **Myclass**. Close the table.

- e. Return to the Editor window. Type **noobs** after **data=myclass** and before the semicolon. The NOOBS option suppresses the Obs column in the PROC PRINT report. Highlight the PROC PRINT and RUN statements and click **Submit** or press F3.

Note: In many of the programs in this course, you need to run only a portion of a SAS program.

```
proc print data=myclass noobs;  
run;
```

- f. View the contents of the Results Viewer and the Log window. Notice that the information in these windows is cumulative. The most recent information is added at the bottom.
- 1) Close the Log window by clicking the **X** in the right corner of the window. Select **View** ⇒ **Log** to reopen the log. The Log window still contains the information from the previous two submissions.
 - 2) To clear the Log window, click  (**New**) when the Log window is the active window. You can also select **Edit** ⇒ **Clear All** to clear the Log window.
- g. Return to the Editor window. Click  (**Save**) or select **File** ⇒ **Save As** to save the program. Navigate to the output folder in the course files. Name the file **shoesprogram** and click **Save**.
- Note:** Notice that the Editor window now appears with the program name.
- h. The appearance and functionality of the Editor can be customized. Select **Tools** ⇒ **Options** ⇒ **Enhanced Editor** from the main toolbar.
- i. In the Enhanced Editor Options window, two tabs contain editor options. On the Appearance tab, increase the font size and click **OK**. Notice the change to the size of the text in the Editor window.
- j. To browse a list of the function key definitions for the windowing environment, select **Tools** ⇒ **Options** ⇒ **Keys** to access the Keys window. Notice the following key definitions:
- F1 is help.
 - F3 is end.
 - F6 is log.
 - F8 is zoom off and submit.

Note: The End command is an alias for the Submit command when it is initiated in the Editor window.

- k. The function key definitions can be customized. For example, F12 can be set to clear the log and results. This function key is used in an Editor window. Enter the following command in the Definition column for F12:

```
clear log; clear output; odsresults; clear;
```

- l. Close the Keys window by clicking the **X** in the right corner of the window or by pressing F3.
- m. Run the **shoesprogram** again. Press F12 and confirm that the Log, Output, and Results windows are cleared.