

# Coder's Corner

## June 3<sup>rd</sup>, 2011



**Some things I've discovered  
since our last meeting**

# Did you know?

**When multiple dataset options are contained in a single statement, those that affect variables are executed according to the alphabetical order of their names**



i.e.,

a **d**rop option is executed before  
a **k**eep option which is executed before  
a **r**ename option



thus, what would be the outcome of running the following code?:

```
data want;
```

```
  set sashelp.class
```

```
  (rename=(name=first_name sex=gender)
```

```
  keep=age sex name
```

```
  drop=age);
```

```
run;
```



```
proc contents data=want;  
run;
```

## Alphabetic List of Variables and Attributes

#	Variable	Type	Len
1	first_name	Char	8
2	gender	Char	1



# Did you know?

## A where datastep option takes precedence over a where statement



for example  
create the following dataset

which will create work.a

```
data a;  
  do i=1 to 10;  
    output;  
  end;  
run;
```

Obs	i
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10



then run the following datastep

```
data want;  
  set a (where i lt 8) a;  
  where i gt 3;  
run;
```

How many records will want have and why?



answer: 14

dataset where option takes  
precedence (selects 1 thru 7)

```
data want;  
  set a (where i lt 8) a;  
  where i gt 3;  
run;
```

the where statement only  
applies to the file that doesn't  
use the where dataset option  
(selects 4 thru 10)



# Did you know?

With `proc sql`, you can get a dictionary that shows the contents of all of the other dictionaries you can access



# You Can!

```
proc sql noprint;  
  create table dictionary_contents  
  as select *  
  from dictionary.dictionaries  
  ;  
quit;
```



# Did you know?

that you can save some or all of your  
keyboard macros/abbreviations in  
one step

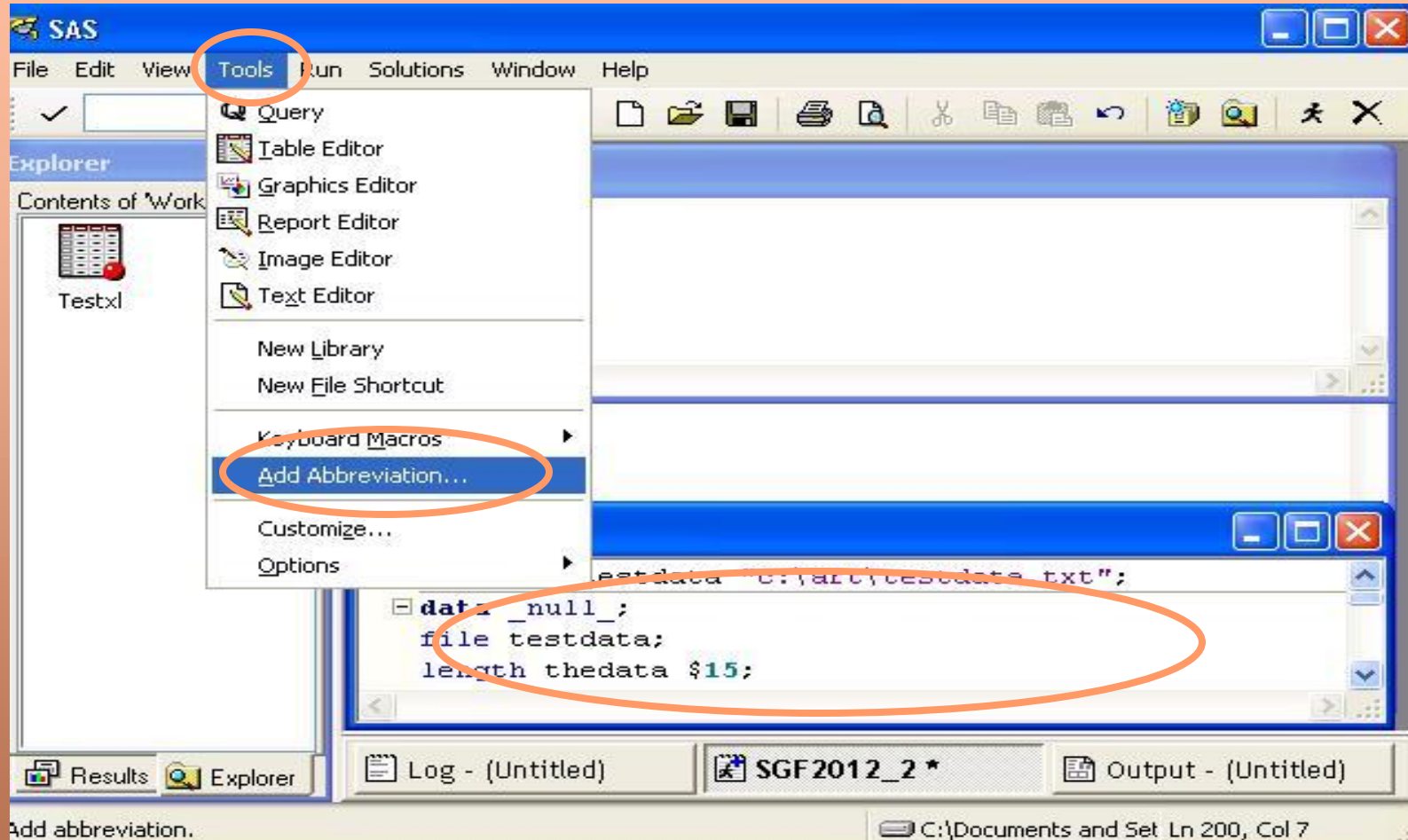


# Did you know?

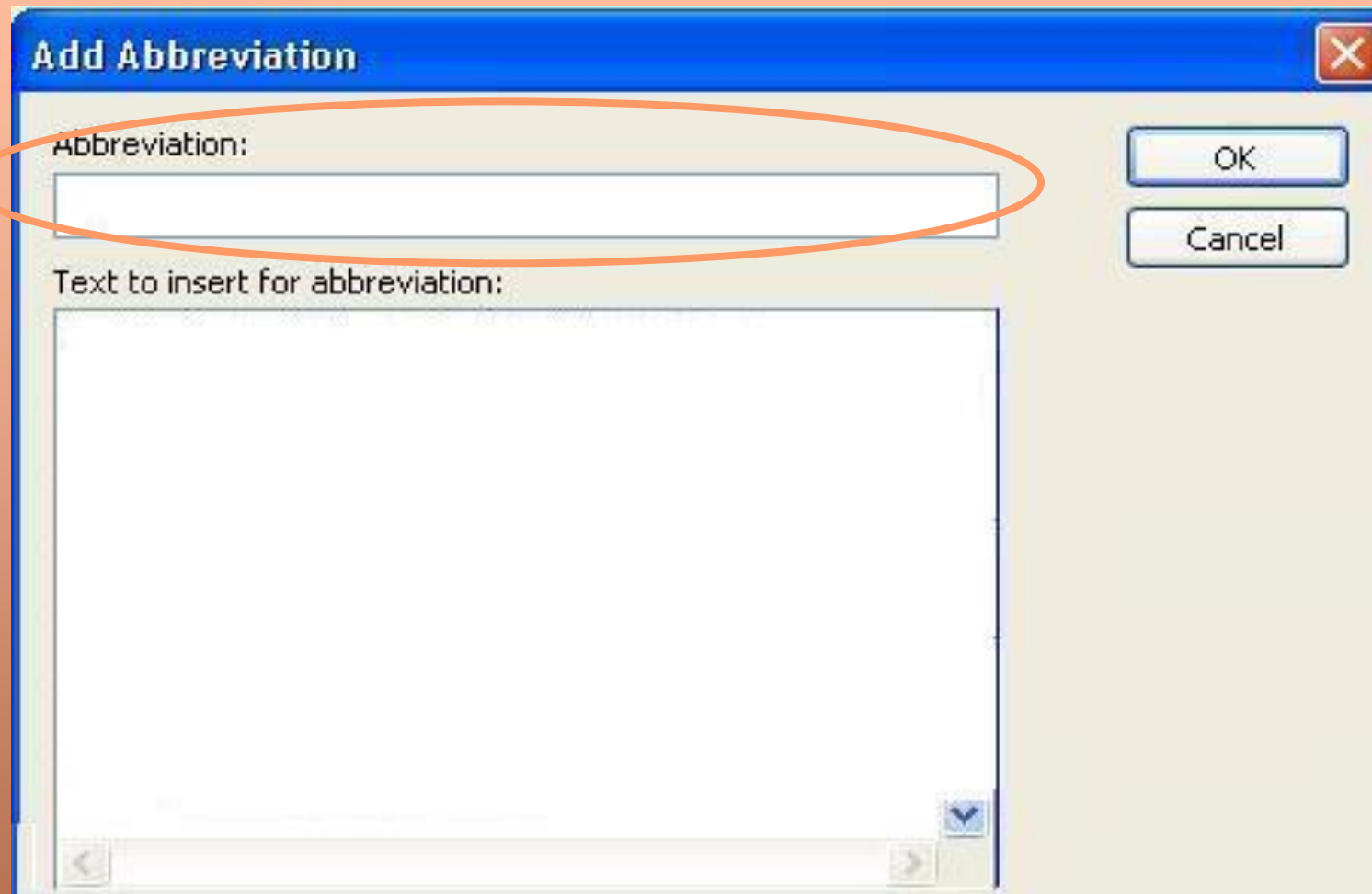
## Okay, first, do you know what a keyboard macro/abbreviation is?



# How to create a keyboard macro/abbreviation



# How to create a keyboard macro/abbreviation



**Add Abbreviation**

Abbreviation:

Text to insert for abbreviation:

OK

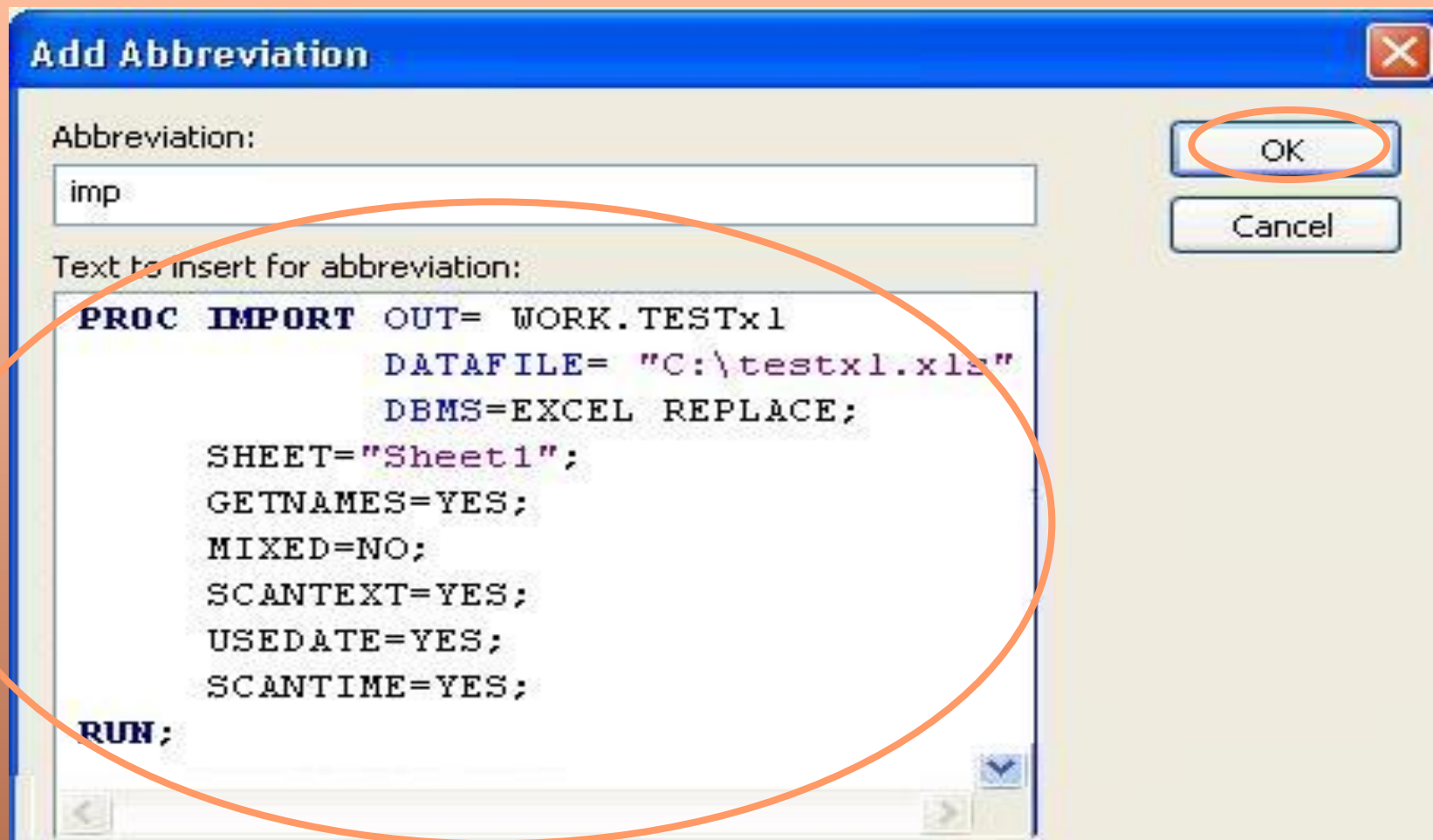
Cancel



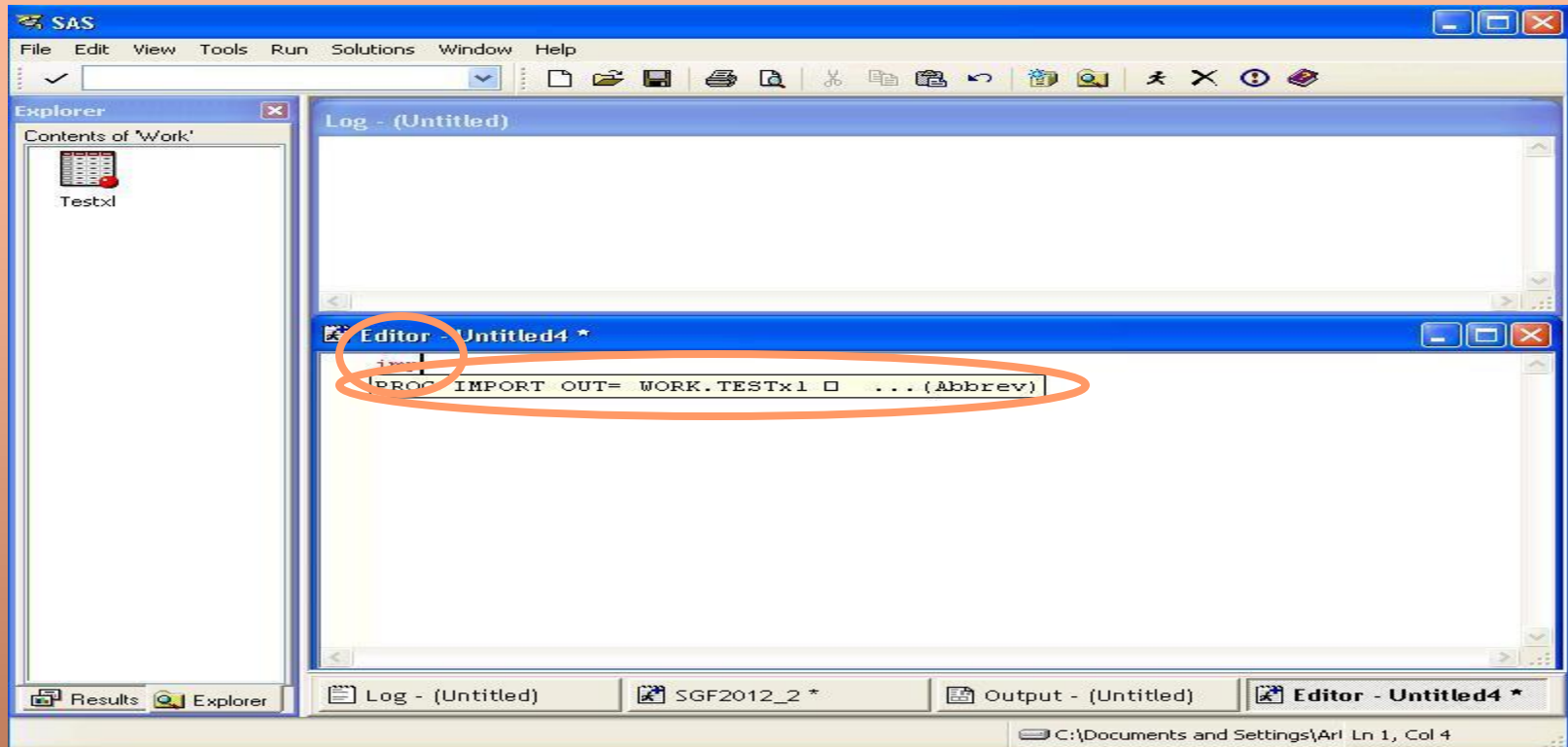
# How to create a keyboard macro/abbreviation



# How to create a keyboard macro/abbreviation



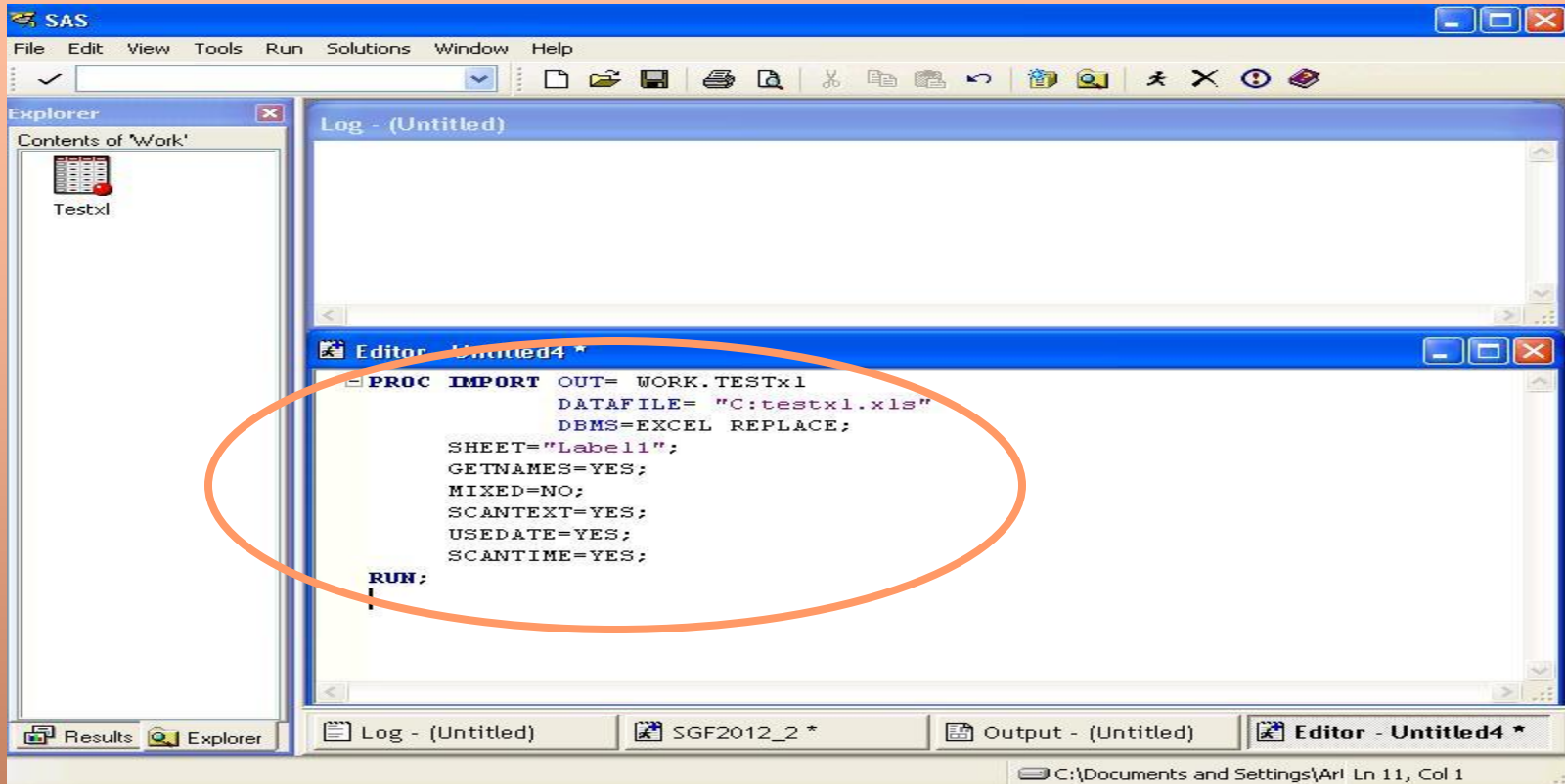
# Then, the next time you type the abbreviation in the program editor



## SAS will inform you that such an abbreviation exists



and, if you press the tab key



your procedure will appear as stored .. all you have to do is make minor edits to it

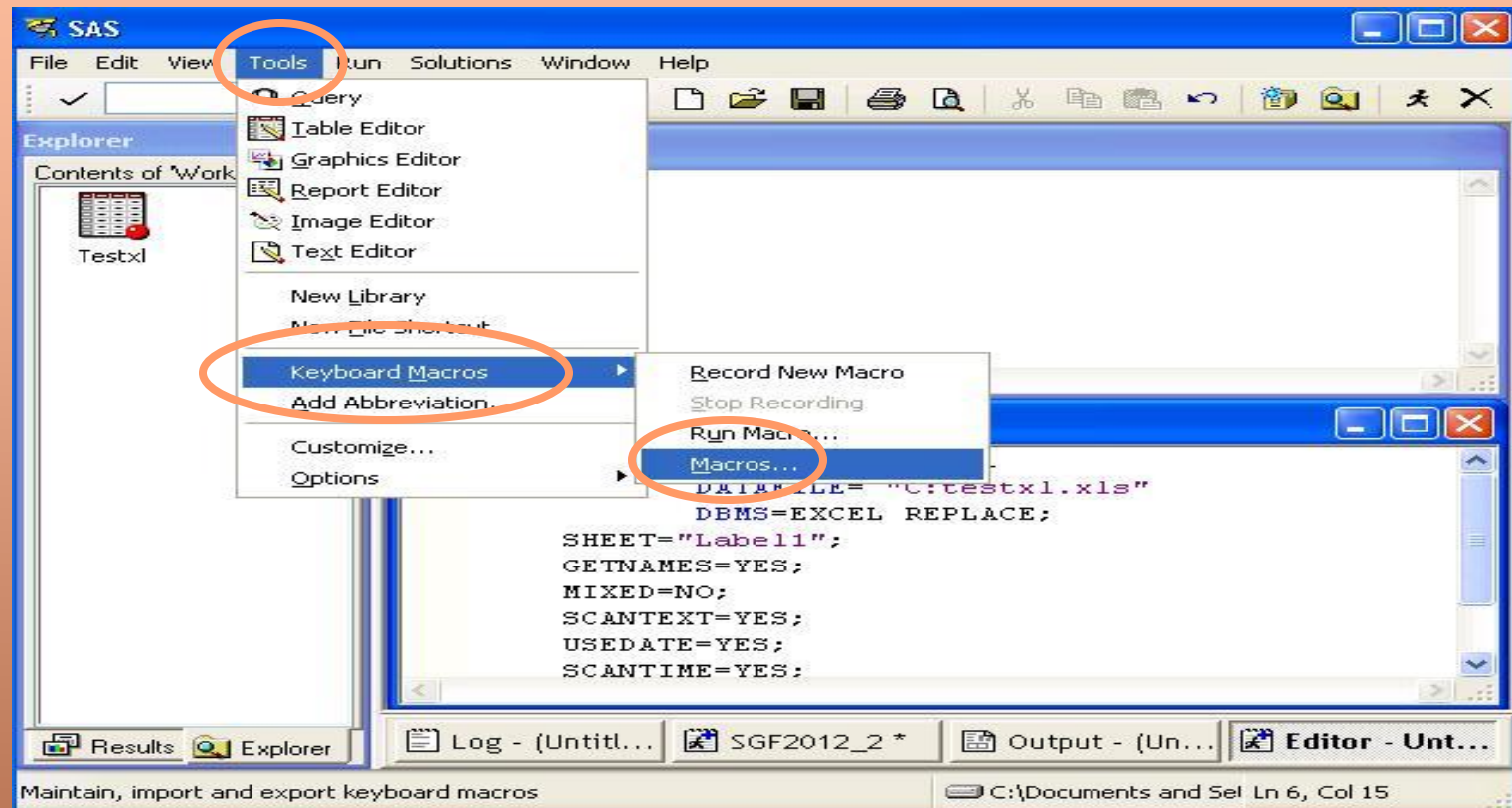


**back to the original question:**

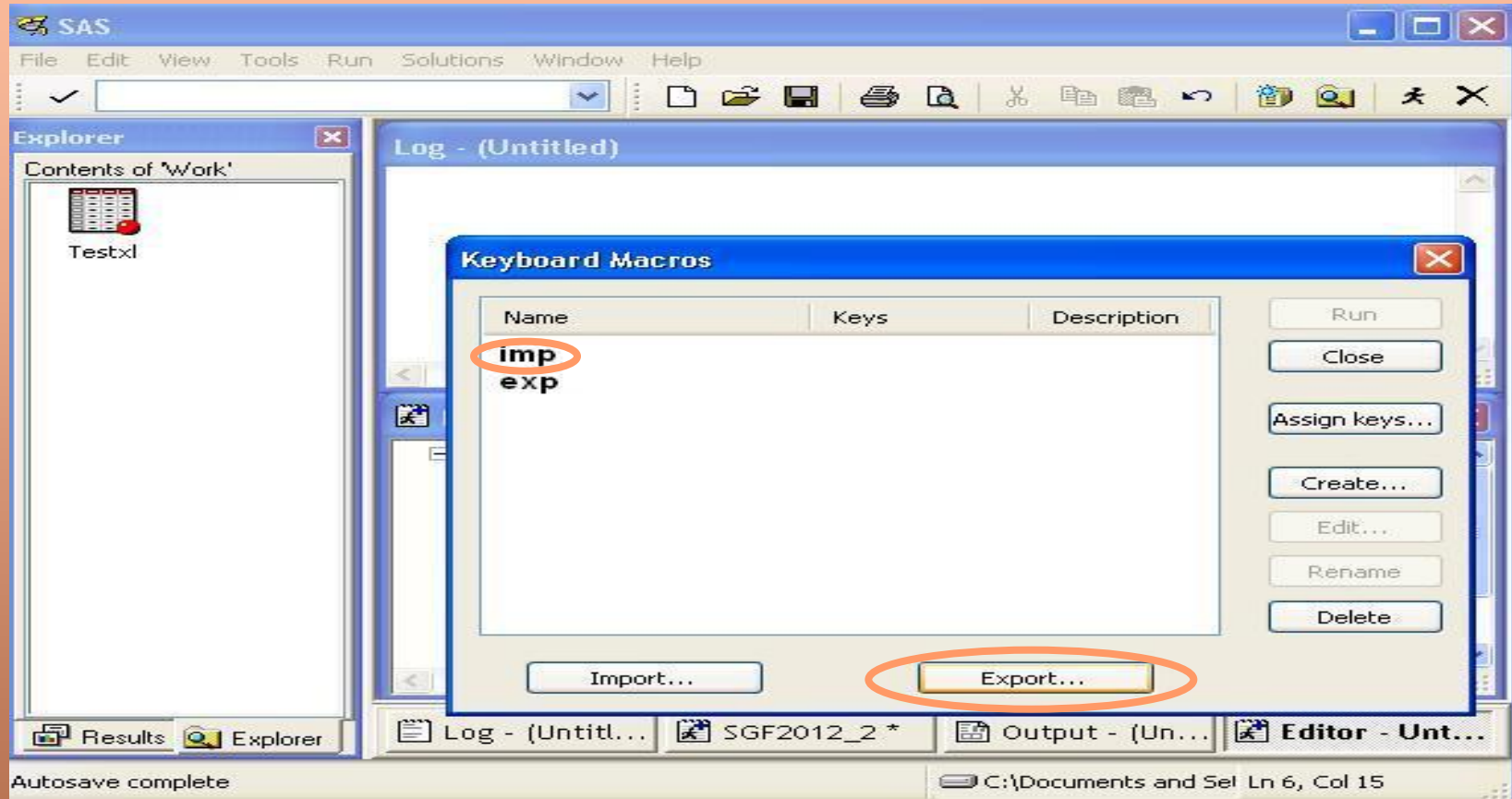
**Did you know that you can save  
some or all of your keyboard  
macros/abbreviations in one step?**



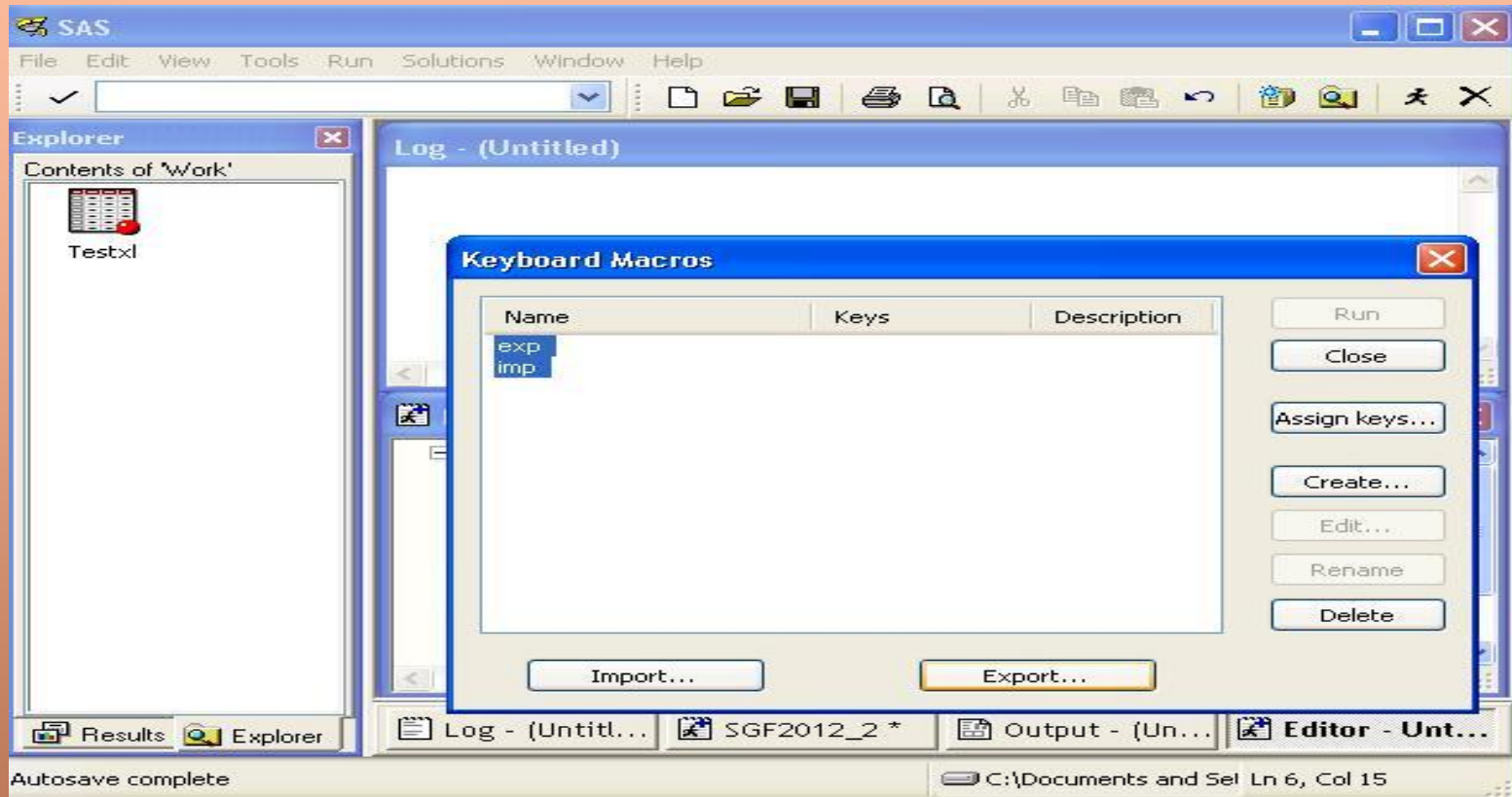
from the program editor if you click on  
tools->keyboard macros->macros



# we all knew that you could click on one of the macros and click on export



but did you know that, if you hold the shift key down, you can select and export



as many as you'd like?



# Did you know?

you can obtain the product of a group of values even though there isn't a function that does that



for example, given the following dataset

```
data have;  
  input x1 x2 x3 x4;  
  cards;  
1 . 3 4  
2 4 6 8  
;  
;
```



and you wanted to have the following dataset

```
data have;
```

```
  input x1 x2 x3 x4 sumproduct;
```

```
  cards;
```

```
1 . 3 4 12
```

```
2 4 6 8 384
```

```
;
```



did you know that you could use?:

```
data want;  
  set have;  
  sumproduct=  
    geomean(of x:)**(n(of x:));  
run;
```

