

The image displays the MATLAB R2012b environment with two side-by-side editor windows, both titled 'Editor - V:\Users\thomasolenik\Documents\MATLAB\scope.m*'. The left window shows the original code, and the right window shows a modified version. The status bar at the bottom indicates the current line and column.

Left Editor Window (Original Code):

```
1 function [Vs, t] = scope(filename)
2
3 %Read the Y axis data of the scope data in volts
4 Vs = xlsread(filename, '', 'E:E');
5 %Read the sample interval from the scope data in seconds
6 sample_interval = xlsread(filename, '', 'B2');
7 %Read number of points in data
8 n_points = xlsread(filename, '', 'B1');
9 %Create time axis
10 t = 0:sample_interval:(n_points*sample_interval)-sample_interval;
11 %Plot waveform
12 plot(t,Vs);
13 title('Imported O-scope Data');
14 xlabel('Seconds');
15 ylabel('Volts');
16 grid on;
17 grid minor;
18 end
19
```

Right Editor Window (Modified Code):

```
1 function [Vs, t] = scope(filename)
2
3 %Read the Y axis data of the scope data in volts
4 Vs = xlsread(filename, '', 'E:E');
5 %Read the sample interval from the scope data in seconds
6 sample_interval = xlsread(filename, '', 'B2');
7 %Read number of points in data
8 n_points = xlsread(filename, '', 'B1');
9 %Create time axis
10 t = 0:sample_interval:(n_points*sample_interval)-sample_interval;
11 %Plot waveform
12 plot(t,Vs);
13 title('Imported O-scope Data');
14 xlabel('Seconds');
15 ylabel('Volts');
16 grid on;
17 grid minor;
18 end
19
```

Status Bar: scope | Ln 2 Col 1 | [DVR]

Command Window: [Vs, t] = scope('F0004CH1.CSV');

File Explorer (Left):

- AM_signal.m
- ECET-310 Chapter 6 Exam
- F0004CH1.CSV
- fourier_series_1.m
- graph_ECG_sawtooth_wave
- graph_sine_square.m
- MATLAB Decaying Sine Wave
- MATLAB_AM_Answer.m
- MATLAB_AM_Spectrum_Analysis
- MATLAB_Function_Arrays
- Problem_AM.mat
- scope.asv
- scope.m*
- spectrum_of_waves.m
- waves.mat

Table (Right):

	E
058	-0.08
057	-0.08
056	-0.08
055	0
054	-0.08
053	0
052	-0.08
051	-0.08
.05	-0.08
049	-0.08
048	-0.08
047	-0.08
046	-0.08
045	-0.08
044	0
043	-0.08
042	-0.08
041	-0.08
.04	-0.08
039	-0.08
038	-0.08
037	-0.08
036	-0.08
-1.035	-0.08