Take Home Case 5

To: Inputless in Simulink
From: MathWorks Team
CC:
Subject: Generating Special Simulink Signal

For creating unique and special signals, I would recommend using a lookup table. This table will allow you to generate different signals for any input. This input can include a time signal. To edit what the signal is doing relative to the input, you can simply double-click the block and change the "Table Data" vector and corresponding breakpoints. In the sample code, the Simulink model which generates this signal is called and then the result is plotted. I have also attached a print of the Simulink model.

All these steps can be seen in the code and Simulink model attached below. I have also included sources for the relevant MATLAB documentation. For reference, documentation for any function can be looked up by typing "doc <function>" into the command window. You can also click on the help button in the Simulink environment on the block you are confused with to find more information pertaining to that block.

Thank you for your patience and happy coding!

-The MathWorks Team

Sources Used:

1. MathWorks. (2021). Sim (r2020b). Retrieved March 4, 2021
   https://www.mathworks.com/help/simulink/slref/sim.html
2. MathWorks. (2021). Lookup Tables (r2020b). Retrieved March 4, 2021
   https://www.mathworks.com/help/simulink/lookup-tables.html