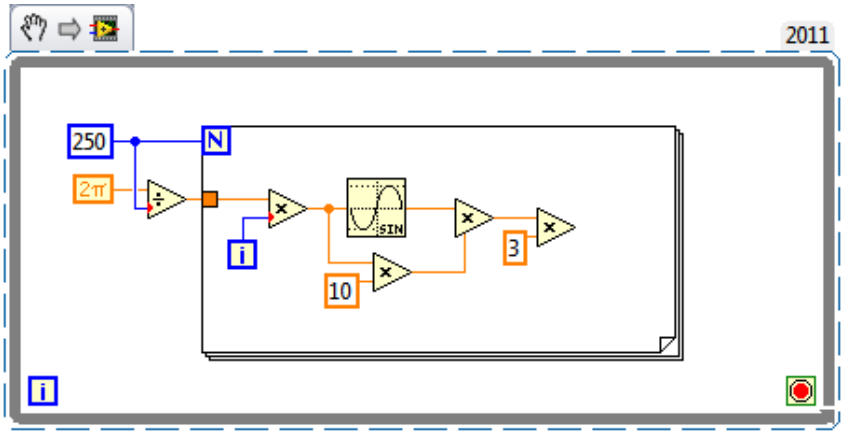
In-Class Exercise: Selective Charting

The following ***VI snippet*** shows the basic LabVIEW code required to generate a certain signal regeneratively. The iterated loop on the inside uses 250 points equally spaced over 2π radians to evaluate a simple sine wave, then repeats the process for a ten-fold increase in frequency. The two are then multiplied together, creating what is known as a "beat phenomenon," and then scaled to an amplitude of 3. The outer while loop repeats the process until the user decides to quit.



Modify the code as necessary to generate two simultaneous charts of the resulting data: one that simply shows every point in a strip-chart fashion, and the second similarly except that the user can turn the chart on and off by use of a boolean switch. Also, include a control that allows the user to slow down the process for easier viewing. You may use the screenshot below as a guide.