

EE2073 Week 5

Matric No.: U2021167E

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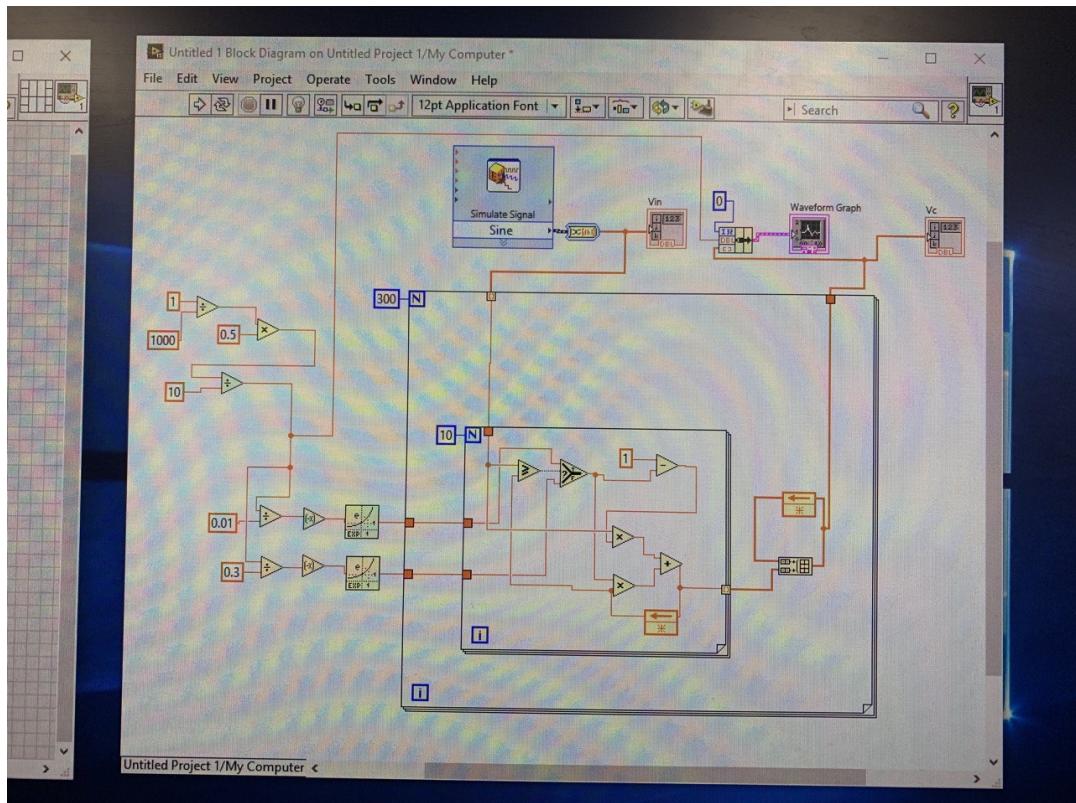


Fig 1. Block Diagram

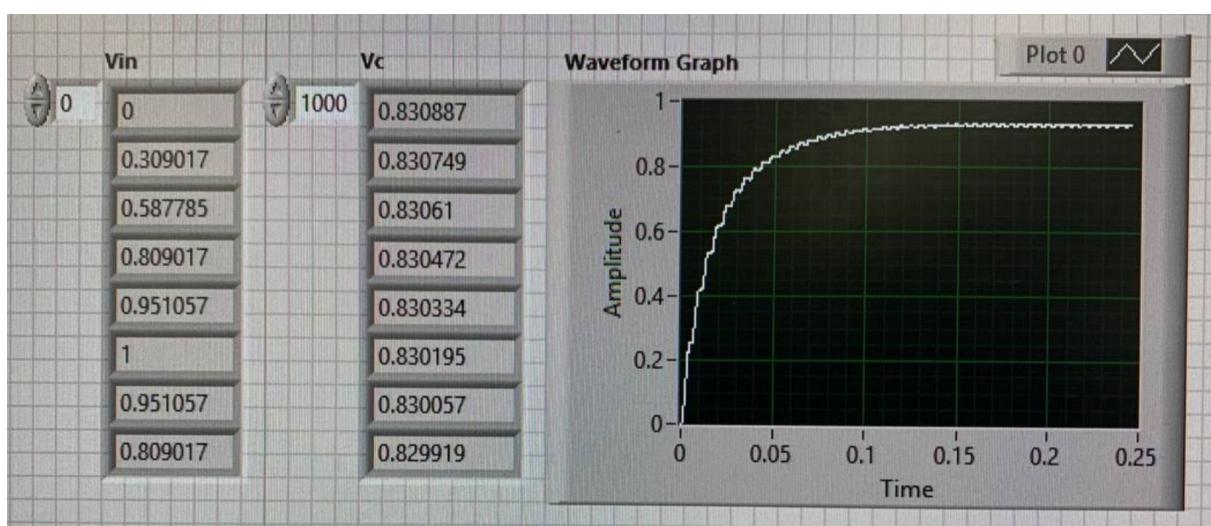


Fig 2. Front Panel

The array of values display the numerical value at a specific cycle. The cycle stops after 0.15s. The table shows the 1000th iteration out of the 3000 cycles.

Open ended question

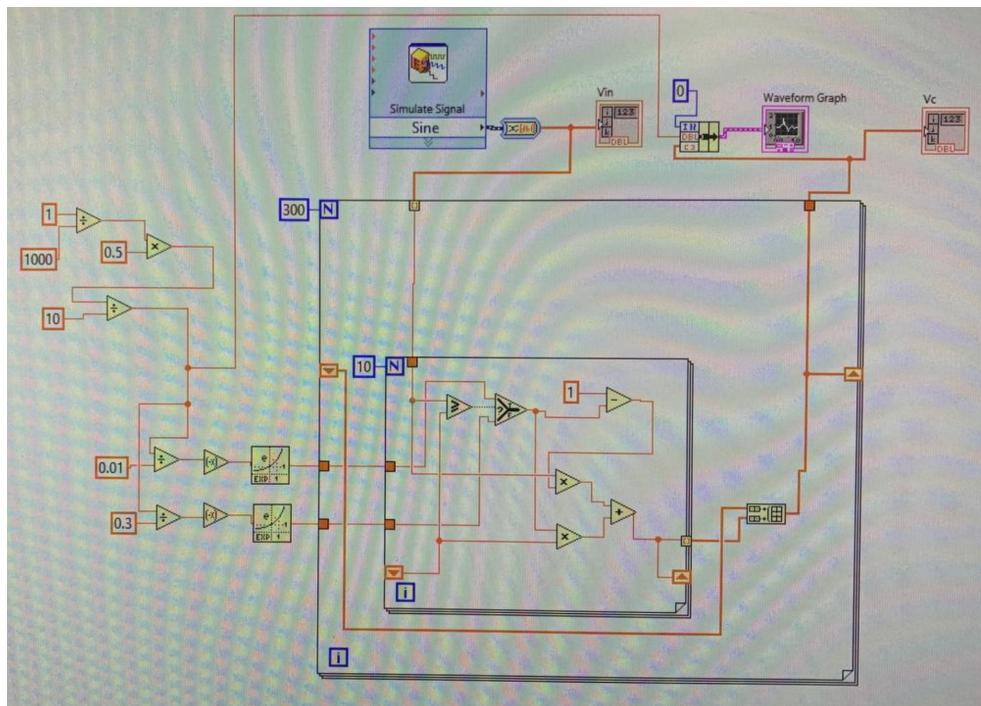


Fig 3. Shift register instead of feedback loop

Both front panels displayed the exact numerical values and same waveform graph. This shows that both feedback node and shift register have similar operation. Data is pass from one iteration of a loop to the next. However, shift registers have the capability to increase its input terminal to get multiple previous iteration values while feedback node can only get the most recent iteration.

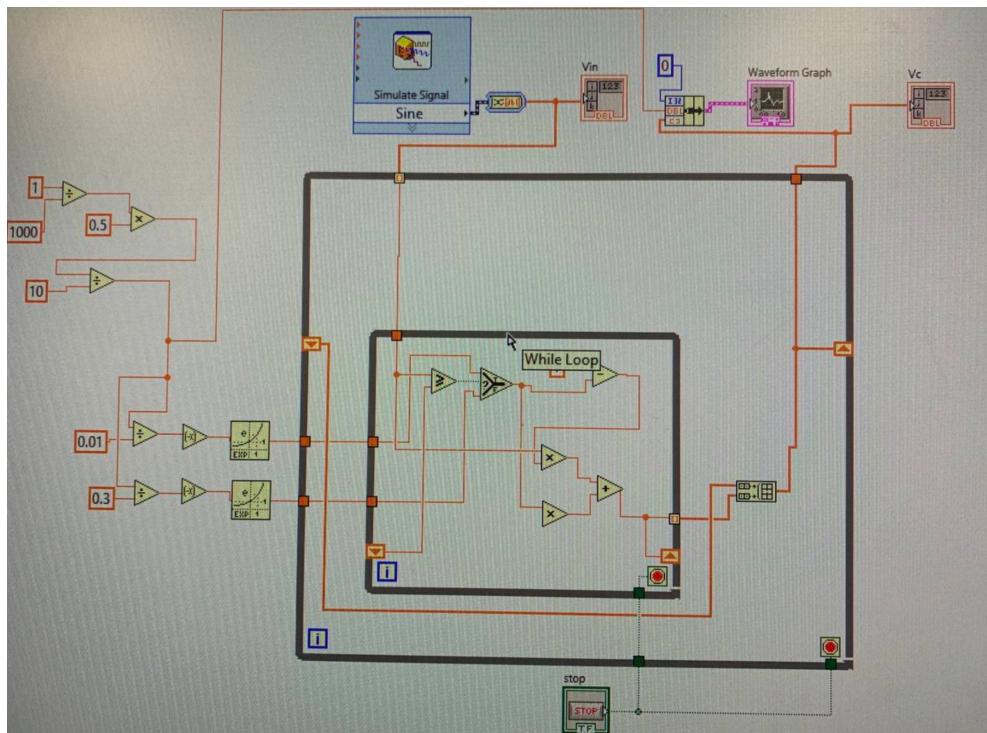


Fig 4. While loop instead of for loop

The only difference between WHILE loops and FOR loops is that FOR loops stop its operations once the number of iteration stated is completed while the WHILE loops run continuously.