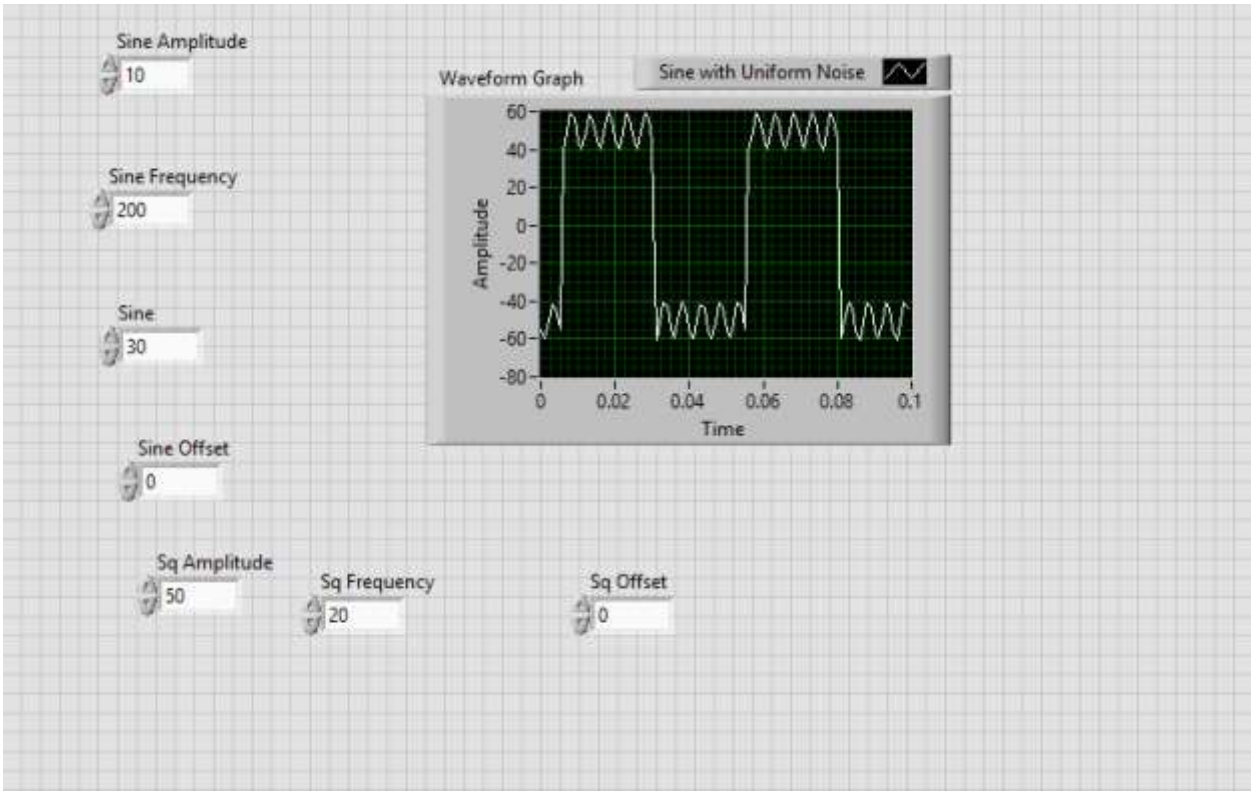
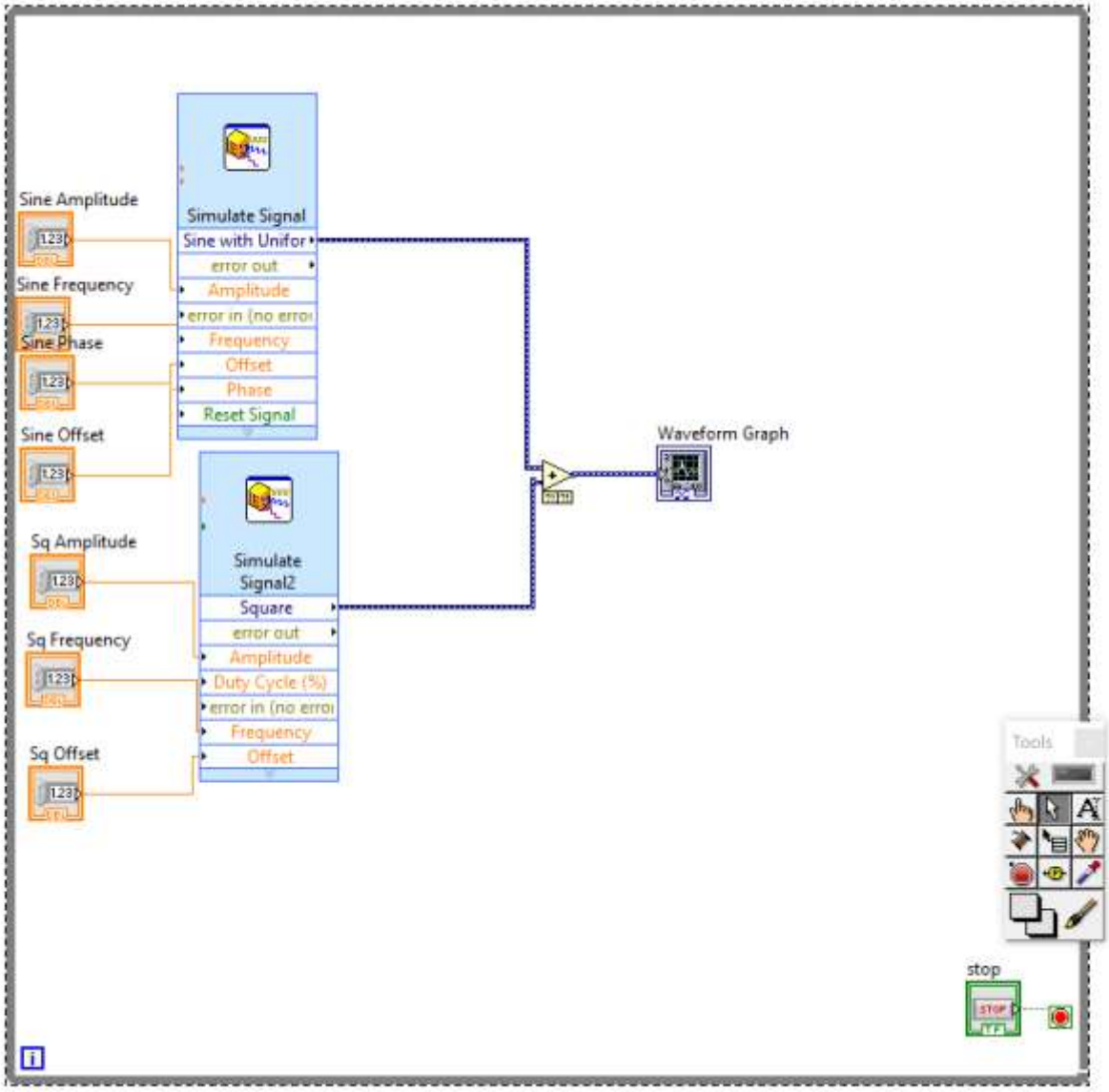
LABVIEW HW 2

Simulate an amplitude modulated Sine signal.

1) Create a sine signal, play with amplitude, frequency and offset of this signal, add noise and how it reshapes. Show these to TA (if you are online show these at your video).
2) Create a square signal .
3) Add square signal to sine signal. Set Sine signal frequency to 200 Hz, amplitude to 2 and set square signal amplitude to 10 and frequency to 50 Hz. Observe how the signal shapes.
4) Change the frequency and amplitude of the square signal and observe how the signal is changing. Show these to TA (if you are online show these at your video).
5) (Bonus) Filter out the sine signal from the square signal by using a low pass filter. Any order or any time of filter is fine. Show these to TA (if you are online show these at your video).


Sine Amplitude
10
Sine Frequency
200
Sine
30
Sine Offset
0
Sq Amplitude
50
Sq Frequency
20
Sq Offset
0
Waveform Graph
Sine with Uniform Noise
Amplitude
Time
60
40
20
0
-20
-40
-60
-80
0
0.02
0.04
0.06
0.08
0.1


Sine Amplitude
Sine Frequency
Sine Phase
Sine Offset
Simulate Signal
Sine with Unifor
error out
Amplitude
error in (no error
Frequency
Offset
Phase
Reset Signal
Waveform Graph
Sq Amplitude
Sq Frequency
Sq Offset
Simulate Signal2
Square
error out
Amplitude
Duty Cycle (%)
error in (no error
Frequency
Offset
Tools
stop
STOP