

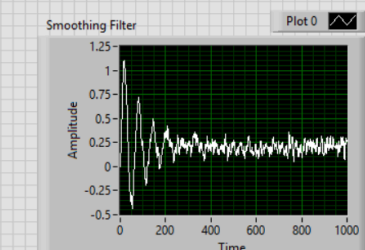
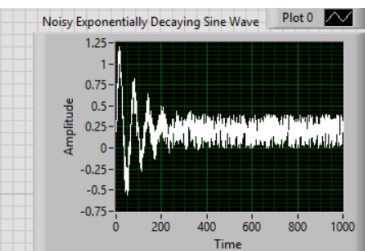
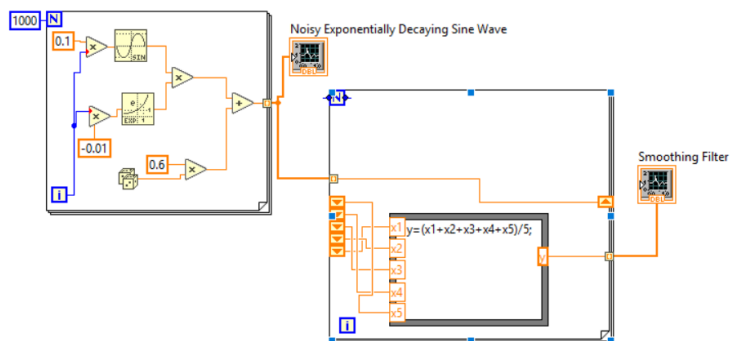
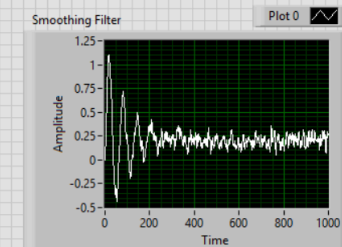
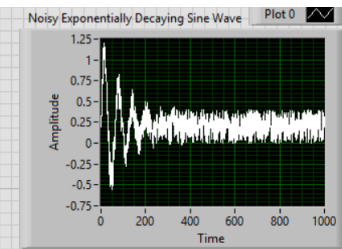
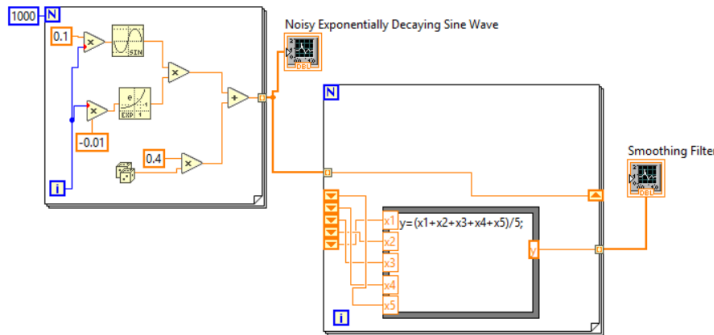
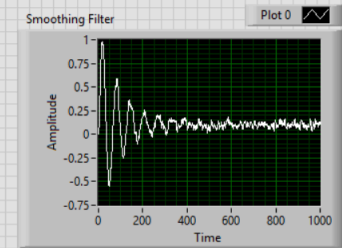
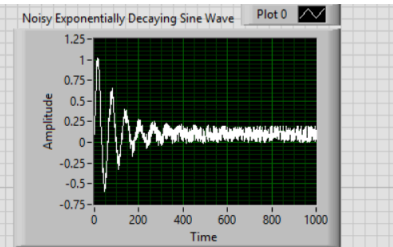
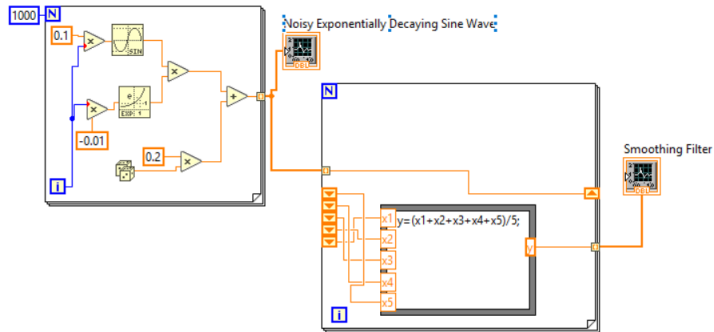
ECE 182 Lab #11 Recovering a Clean Signal from a Noisy Signal

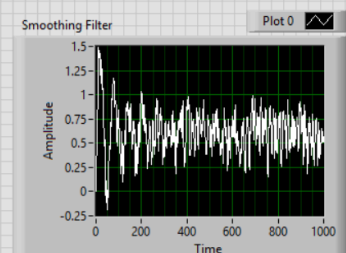
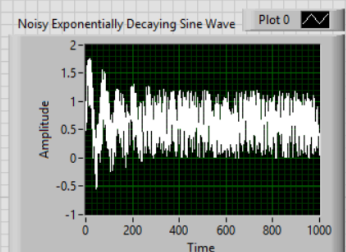
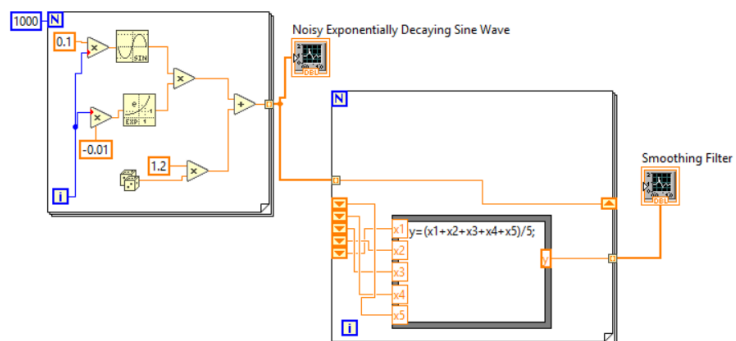
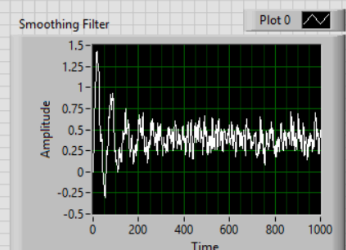
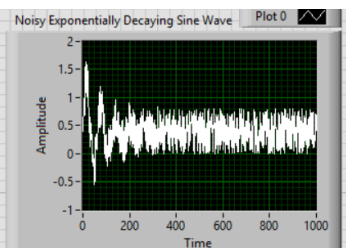
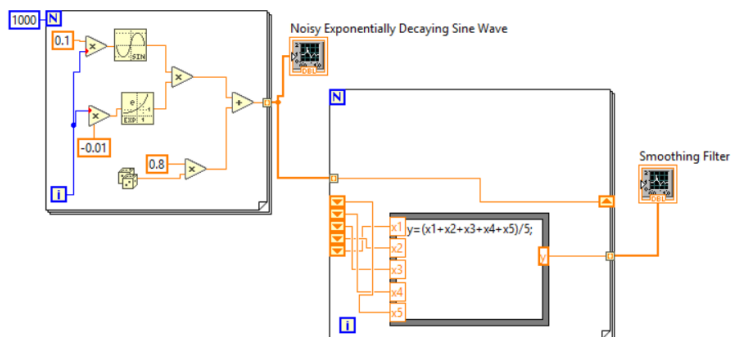
Day of Submission: 11/19/2025

Name of student: Frank Tamburro

Results

5 different inputs





Summary

Lab 11 focused on recovering a clean signal from a noisy exponentially decaying sine wave using LabVIEW. The experiment required generating a noisy signal and then building a smoothing filter to reduce the noise while preserving the underlying waveform shape. A 5 point moving average filter was implemented using a shift register and a formula node inside a For Loop. This method effectively lowered the high frequency noise without significantly distorting the original signal. Overall, the exercise reinforced LabVIEW programming skills and helped illustrate the importance of noise reduction techniques in signal processing.