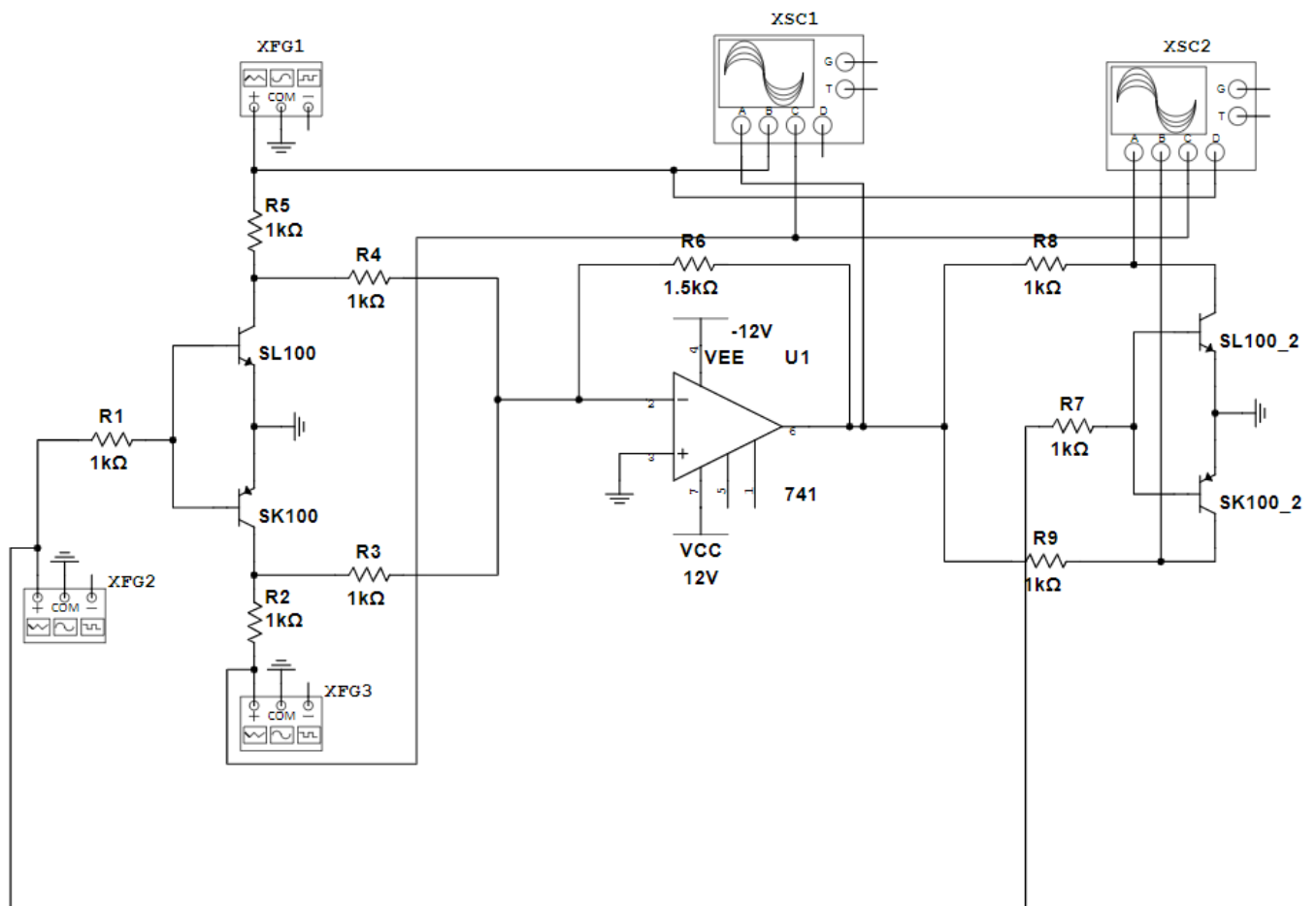


TDM - Time Division Multiplexing

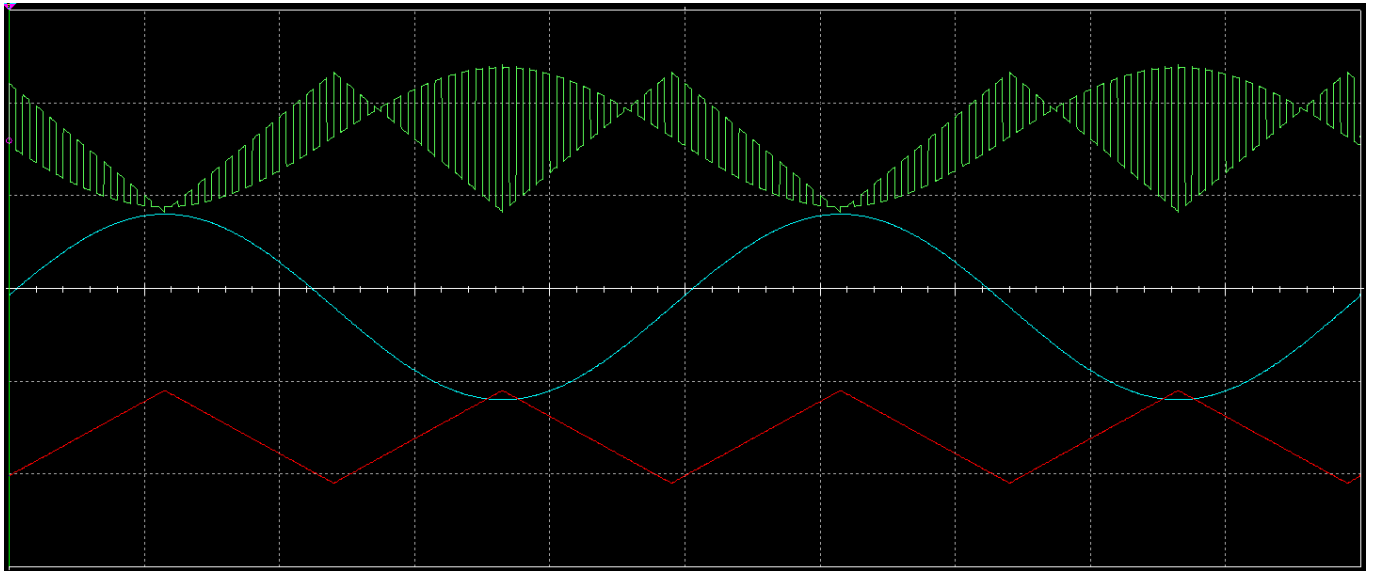
Software Used: **Multisim**

Circuit:

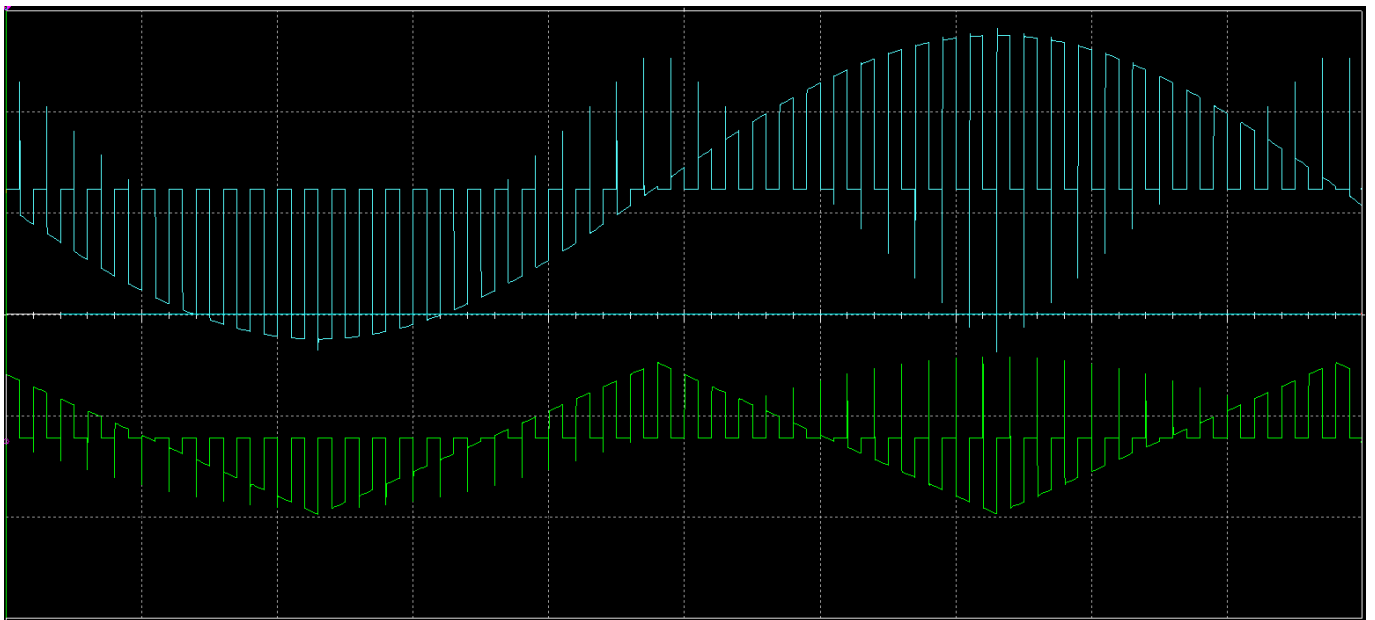


Plots:

Multiplexed



De-Multiplexed



DM - Delta Modulation

Software Used: **Simulink**

Model:

The figure consists of four vertically stacked subplots, each with a time axis from 0 to 15 seconds. The top subplot, titled "Message Signal", shows a smooth, periodic yellow sine wave. The second subplot, titled "Delta Modulated", shows a yellow step function that changes its level at each sampling interval to approximate the message signal. The third subplot, titled "Delta Modulation Error", shows two signals: a smooth yellow curve representing the original message signal and a jagged blue line representing the difference between the message signal and the delta-modulated signal. The bottom subplot, titled "Delta Demodulated", shows two smooth curves: a yellow curve representing the reconstructed message signal and a blue curve representing the demodulated signal, which closely follows the yellow curve.