

## **Pre Lab Work (LAB 5)**

Q1) Design Ideal high pass and low pass FIR filter using the following windowing techniques-

1. Hamming
2. Hanning
3. Rectangular

Demonstrate the filter operation by taking appropriate input in MATLAB. Store the filter coefficients of all the filters and the input signal in .dat format and use the same to demonstrate the filter operation using DSP Kit (TMS320C5515).

Q2) Design IIR (Butterworth and Chebyshev) low pass and high pass filter, and demonstrate the filter operation in the same way as Q.1.

**All MATLAB tasks of the experiments should be done before coming to the lab.**



