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Experiment 5	
Problem Statement	Filter the Audio Signal Captured in the presence of noise and improve the quality of sound
ALGORITHM:	1. Record Audio in the presence of noise with Fs = 8000 Hz==> x[n]. 2. Play the recorded signal x[n] and observe the quality of sound. 3. Design FIR Low Pass Filter using MATLAB filter design Tool. Take Fpass = 2000Hz. Fstop = 3000Hs Fs = 8000 4. Filter the audio signal x[n] i.e. Perform Linear Convolution of x[n] and h[n] using either OAM/OSM based on FFT ==>. y[n] 5. Play the filtered signal y[n] and observe the quality of sound

| **RESULT:** | |