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Experiment 1 (Application)	

PROBLEM DEFINITION:	Filter the Audio Signal captured in the presence of noise and improve the quality of sound.
ALGORITHM:	 Record Audio Signal in the presence of noise ==> x[n]. Play the recorded signal x[n] and observe the quality of sound. Design FIR Low Pass Filter using MATLAB filter design Tool. Take Fpass = 4000Hz, Fstop = 6000Hz, Fs = 44000Hz. Filter the audio signal x[n] i.e., perform Linear Convolution of x[n] and h[n] ==> y[n]. Play the filtered signal and observe the quality of sound.
EXPERIMENTATION AND RESULT ANALYSIS:	
RESULT:	Audio Signal 20000 10000 -10000 -20000 Time (s) Original Audio

