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Experiment 5 (Application)	

PROBLEM DEFINITION:	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 = 3000Hz, Fs = 8000Hz. 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. 	
EXPERIMENTATION AND RESULT ANALYSIS:		
RESULT:	Original Audio Signal 8000 4000 2000 -4000 -6000 -8000 0 50000 100000 150000 200000	
	-8000 -	

