1. Hızlı fourier Dönüşümü MATLAB uygulaması

>> Fs = 1000; % Sampling frequency

T = 1/Fs; % Sample time

L = 1000; % Length of signal

t = (0:L-1)\*T; % Time vector

% Sum of a 50 Hz sinusoid and a 120 Hz sinusoid

x = 0.7\*sin(2\*pi\*50\*t) + sin(2\*pi\*120\*t);

y = x + 2\*randn(size(t)); % Sinusoids plus noise

plot(Fs\*t(1:50),y(1:50))

title('Signal Corrupted with Zero-Mean Random Noise')

xlabel('time (milliseconds)')