Start

Import Audio signal and read it

plot the data signal

FFT NOISE

The Band limits Noise

plot the noise signal

Adding noise

Original Audio signal

Applying Short time Fourier Transform

plot the spectrogram

Creating A mask

Create a smoothing filter for the mask

Calculate the threshold

Threshold > STFT signal

Plotting the spectrogram

Convolve the mask with a smoothing filter

Yes

Mask if the signal is above the threshold

DeNoise the noise above the threshold limit .