

# Noise Reduction

## AIM

This tool is intended for reducing the noise in the input wave file. For implementing the same we used a library named “**sox**” in which reduces the noise and the disturbances in the input file and is supported on various platforms such as MAC, Windows, Linux etc. Presently we have tested this on Linux.

Following is the code for implementing it:

1. **sox input.wav -n trim 0 0.5 noiseprof myprofile**
2. **sox input.wav output.wav noisered myprofile \$1**

## RESULTS

The results have been attached in the folders as inputs and outputs.

## CLIENT'S REACTION

According to clients due to noise reduction algorithm working (i.e. sox), some data loss from recording is also happening. Moreover, it is not considering clipped areas of recording. They have suggested us to find some new libraries which take care of these issues and to implement it.

## RESULT

We are now looking for a library in python which can implement the functionalities, using linear predictive coding algorithm to meet the exact clients requirements.