Conclusion:

In this project, we were given an audio signal, which had a shrill noise added to it. The aim of the project was to remove the noise from the signal using filters, in order to understand the words being spoken in the audio. By the end of the project, we were able to successfully overcome the given problem statement, by designing filters and extracting noise to hear the speech, in Python.

Learning Outcomes (in Python):

1. Reading and Manipulating Audio Files
2. Plotting Amplitude vs Time Graphs of Audio Signals
3. Calculating FFTs of Audio signals
4. Creating a Bandstop Filter
5. Creating a Bandpass filter
6. Playing .wav files natively
7. Adjusting Filters according to need of the project