

BLG 354E Signals and Systems for CE (Spring 2018)

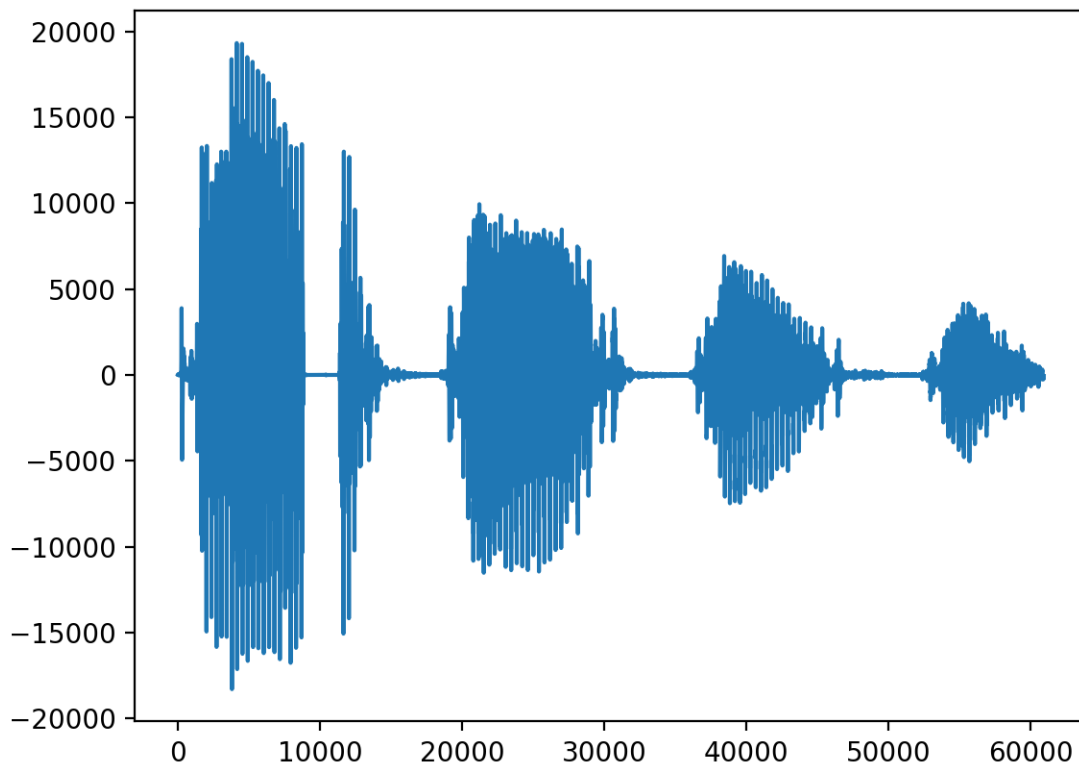
Homework-4

Onat Sahin - 150150129

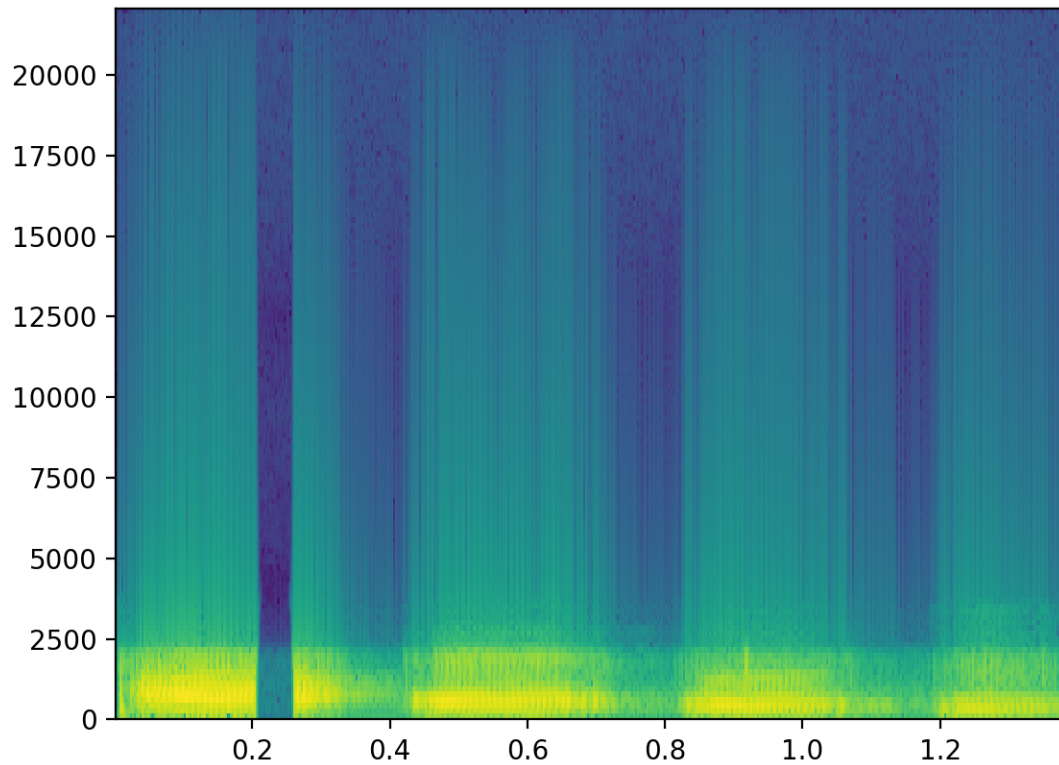
June 3, 2018

The code for the homework is in the 150150129.py file.

My input signal:



Spectrogram of the filtered voice:



f) When I tried different phase values, I have seen that multiples of $\pi/2$ gives a very high pitched and low volume voice. This voice was the closest I got to zero output.

g) When I make the phase 0 and set the carrier frequency of the demodulator 10Hz higher than the carrier frequency of the modulator, I can hear the sound but it becomes less clear and choppy(kesikli).