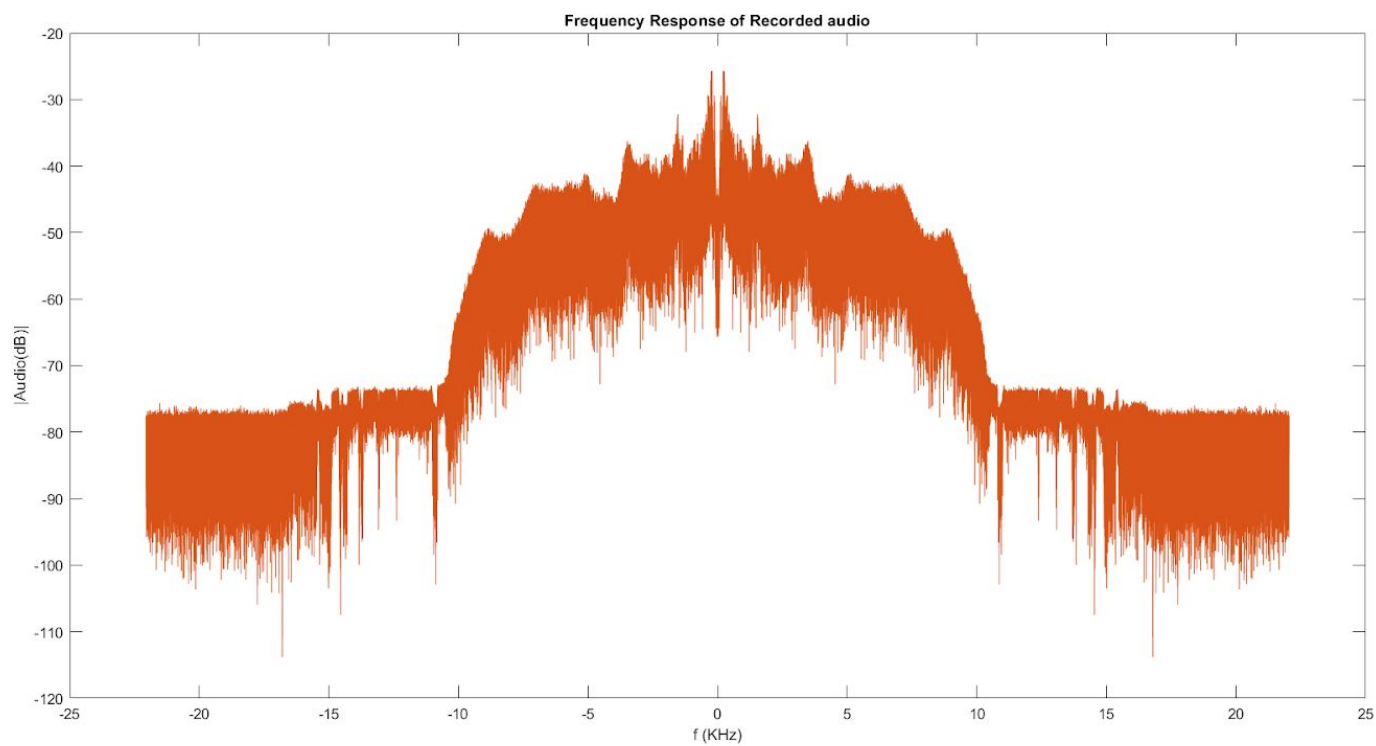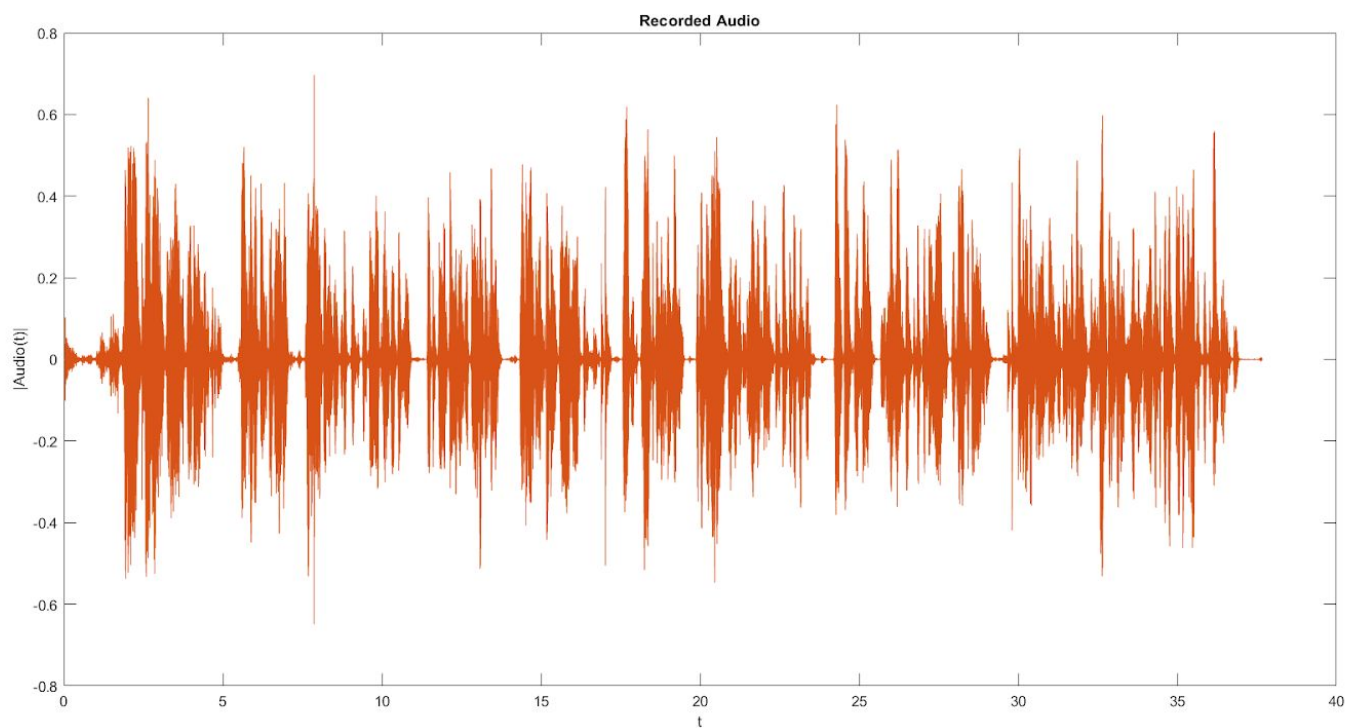## Lab 2: August 25th, 2020 - Prateek Grover

Question 1. Analyzing Recorded Audio

# Question 2. Tone Generation



Dial Tone Audio



Ringing Tone Audio

Busy Tone Audio

Task 3 : Conversion of sentence to binary format

‘'The entropy was originally created by Shannon as part of his theory of communication, in which a data communication system is composed of three elements: a source of data, a communication channel, and a receiver.';

'111011111110111011111111101111111011011111101101111011011101111110110111111111111001
101111101011101111111111111011111101101111111011011110111111100101111110110111100101
111111111111011111100111010111111100111111111111111111111111111111111111011111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111000001101101101
001000000001001001000010100000000101011000000101000110000000010001000000001000000000001000
000100001000011110000100001010000001010000000011100010110000000010000000010000100000000
000000000000010001010010001001010000010101101110000000000100101110000000001001100010101
010001110110001111011001101000000000111011000111001000101000110100001000100000101010100100
001000001000000100001110110001110010110110010000000010001101011101000100010010101100001
01110000000111000000010110000001011000110011111000101110010100000001010001111000101100000
1110000011010110110100110111111100000001100101101010100001111000101100001111001100001011
011010000010110001010110101000001100000010010011100100010011000100001100110110001010001
100010100100000000110001010001101010000010110011000110001000000001011000110110011000000
000110001010001101001100000100001010010110010100010101110101110100101011010001010100100
1001000100011000110101001111101110110001001011001001010111101110110011011011101101011011100
10000011010111001001011101101000101001011111011101100101001000100010011110100'