Method Bart and Guus MatLab

We created three different scripts to which we reffered in the main script ('textbased\_ui\_template').

The first script ('calc\_offset') is used to calculate the offset (mean) and the RMS (case 3).

In this script we made a function which uses the build-in calculation for the mean and the rms. As seen in the program we calculated them by using the build-in calculation and apply them to s (the signal of the .wav)

The second script, needed for case 4, is used to neutralize the offset.

In this script we made a function which creates a new variable (a) which is the new graph. This variable is s (the signal) minus the offset (o). This gives us a graph of which the offset is subtracted and thereby neutralized. If this program would be run without first calculating the offset, we inserted the calc\_offset (s) in this script, as seen in the script itself.

In the last script (normalize\_rms) we normalize the rms (case 7).

The function in this script is quite simple. It is just a formula to calculate a new 's' using

s = (1/rms) \* s

This formula gives a new graph in which the rms is normalized. If, after this script, the rms would be calculated it gives a value of zero. Which means that the RMS is indeed normalized.