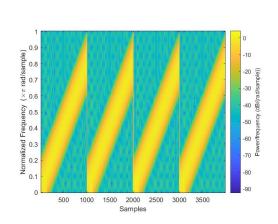
Question 7:

Part 1:

Implemented spectrogram

2 4 6 8 10 12 14 16 18 20 50 100 150 200 250 300 350

Inbuilt spectrogram



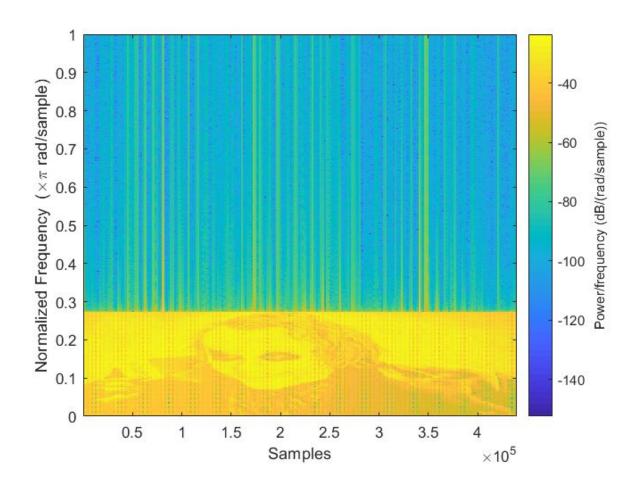
Explanation:

While implementing spectrogram, we find the indexes from 1 to N at the interval of the stride length,

Then we keep all those which are within the N+1-window_length range. Then we rearrange the image to columns and apply fft to the indexes

Part 2:

The spectrogram we get for message.wav is



The message can be seen in the image.