Subject: 21AIE315

Lab Session: 03

Notes:

1. Please read the assignment notes carefully and comply to the guidelines provided.
2. Code should be checked into the GitHub and the report to TurnItIn. These details shall be provided in the Lab.
3. If you have not completed the prerequisite assignments, please complete them before starting these assignments.
4. Please use your headphone / earphones for lab experiments. Avoid using the device microphone / speakers (not to disturb others).

References:

- https://librosa.org/doc/main/generated/librosa.effects.trim.html
- https://librosa.org/doc/main/generated/librosa.effects.split.html
- https://aseblr.sharepoint.com/:b:/s/21AIE315-E/EUaXrws5w3JDrFYUBS0Og4UBqhyJxFENU3fWXB-J8z_BSg?e=HyUcTQ

Main Section (Mandatory):

Please use the recorded voice of yours used in last lab session.

A1. Use `librosa.effects.trim()` to remove the silence parts of speech from beginning and end of your recorded signal. Listen to the new signal and perceptually compare the audio with original.

A2. Use `librosa.effects.split()` to split the recorded speech with detected silences. Play around with the top_db parameter and see the effects of split. Listen to the generated signals and observe the split quality.

A3. Use the IEEE paper reference available above for silence detection. Compare the results with the silence detection output from librosa package.

Report Assignment:

1. Update your last week's report by updating the introduction, literature review sections. Please conduct literature review with the downloaded papers. The Reference section should be added / updated with the list of papers used for literature review. Please make sure to align your introduction to your project scope.
2. Add the experiments conducted on your recorded speech in Methodology section. Write the results obtained in results analysis section.
3. Summarize the outcomes of your experiments in conclusion section.