Marks: 10   Weight: 02   Due Data: **22 Feb, 2019**

Description:

You have to design an interface as given below using **Python**. It has two buttons

1. **[2.5 Point] Record/Upload** button, by clicking on it, will upload an audio file or record an audio file and will plot the signal as shown in figure
2. **[2.5 Points] Plot FFT** button will create FFT plot of the signal showing the frequency and amplitude of the signal as shown.
3. **[2.5 Points]** Duration Text field will show you the duration of the audio
4. **[2.5 Points]** Two sub-windows with sliders that can be dragged to view the whole plot if the plot cannot fit in the sub-windows (generally it occurs when the audio file is lengthy).