**Add to your framework the following function preprocessing**

This function takes a path for input signal, its sampling frequency ‘Fs’, the minimum ‘miniF’& maximum frequency ‘maxF’ of the signal and new sampling frequency ‘newFs’ as an input and then do the following:

1. Display the given signal.
2. Filter the signal using FIR filter with band [miniF, maxF].
3. Resample the signal to newFs only if newFs doesn’t destroy the signal, else show a message to the user “newFs is not valid” and continue executing the next instructions.
4. Remove the DC component.
5. Display the resulted signal from 4.
6. Normalize the signal to be from -1 to 1.
7. Display the resulted signal from 6.
8. Compute DFT.
9. Display the resulted components from 8.