

## Task 5

Add to your Frequency domain menu the following features:

- 1) Computing DCT for a given input, display the result and the user can choose the first  $m$  coefficients to be saved in txt file.

$$y(k) = \sqrt{\frac{2}{N}} \sum_{n=1}^N x(n) \cos\left(\frac{\pi}{4N} (2n-1)(2k-1)\right)$$

- 2) Remove DC component in time domain.