**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.

Logo

Description automatically generated

* Add to your framework a menu named Time Domain that includes the following features:

1. Sharpening: Compute and display y (n) which represents

First Derivative of input signal

Y(n) = x(n)-x(n-1)

Second derivative of input signal

Y(n)= x(n+1)-2x(n)+x(n-1)

1. Delaying or advancing a signal by k steps.
2. Folding a signal.
3. Delaying or advancing a folded signal by k steps.