# DATA STRUCTURES and ALGORITHMS

## HOMEWORK #2

## Due Date 03-01-2024

You are going to work on Huffman Coding in this homework. Please do the following;

1- Find the characters and their frequencies of a given text which will be read from letter.txt file.
2- Keep these in a sorted linked list (use your own linked list class).
3- Construct the huffman tree using this alfabet(characters).
4- Find the code of every character and display them.
5- Encode the given text(read it from a source.txt) and write the coded text into encoded.txt file.
6- Decode a given text(read it from an encoded.txt) and write the decoded text into decoded.txt file