

Experiment No 1. Develop a program to encode and decode a text file with the RLE method. Read the data from a file and write the encoded and decoded data in a separate file.

Experiment No 2. Develop a program to encode and decode a text file with the LZW method. Assume ASCII code is the initial dictionary for the character of the text file. Read the data from a file and write the encoded and decoded data in a separate file.

Experiment No 3. Develop a program to encode and decode a string of characters with the arithmetic coding method. Generate the probability of the symbol of the string automatically. Read the data from a file and write the encoded and decoded data in a separate file.

Experiment No 4. Develop a program to encode a string of characters with the Huffman coding method. Generate the probability of the symbol of the string automatically. Read the data from a file and encode it (i.e. write the symbol table and the codeword of the data) in another file. Also, decode the encoded data in a separate file.

Experiment No 5. Develop a program to apply DCT on a gray level image 16X16 and plot the transformed image. Then apply IDCT on the transformed image and plot it also.