A screenshot of a computer

Description automatically generated with medium confidence**Multimadia**

**Prepared by:**

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This project consists of five algorithms, they are:

1. Run Length Code (RLC).
2. Variable Length Code (VRLC).
3. Huffman Code.
4. Adaptive Huffman Code.
5. LZW.

# **This is the Main page :**

It contains the five algorithms

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# **RLC :**

It is the first algorithm and it contains:

* a button for Encode
* another for Decode

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* **Encode for RLC:**

Input: AAAAAAAAAAAAAAAAABBBNNNBBBAAAAAAA

Output : 9A3B3N3B7A

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* **Decode for RLC:**

Input : 9A3B3N3B7A

Output : AAAAAAAAAAAAAAAAABBBNNNBBBAAAAAAA

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# **VRLC :**

The second algorithm consists of a button to draw and a button to display the number of bits used

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* **Drawing:** Input >> Hello

Graphical user interface

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* **Graphical user interface

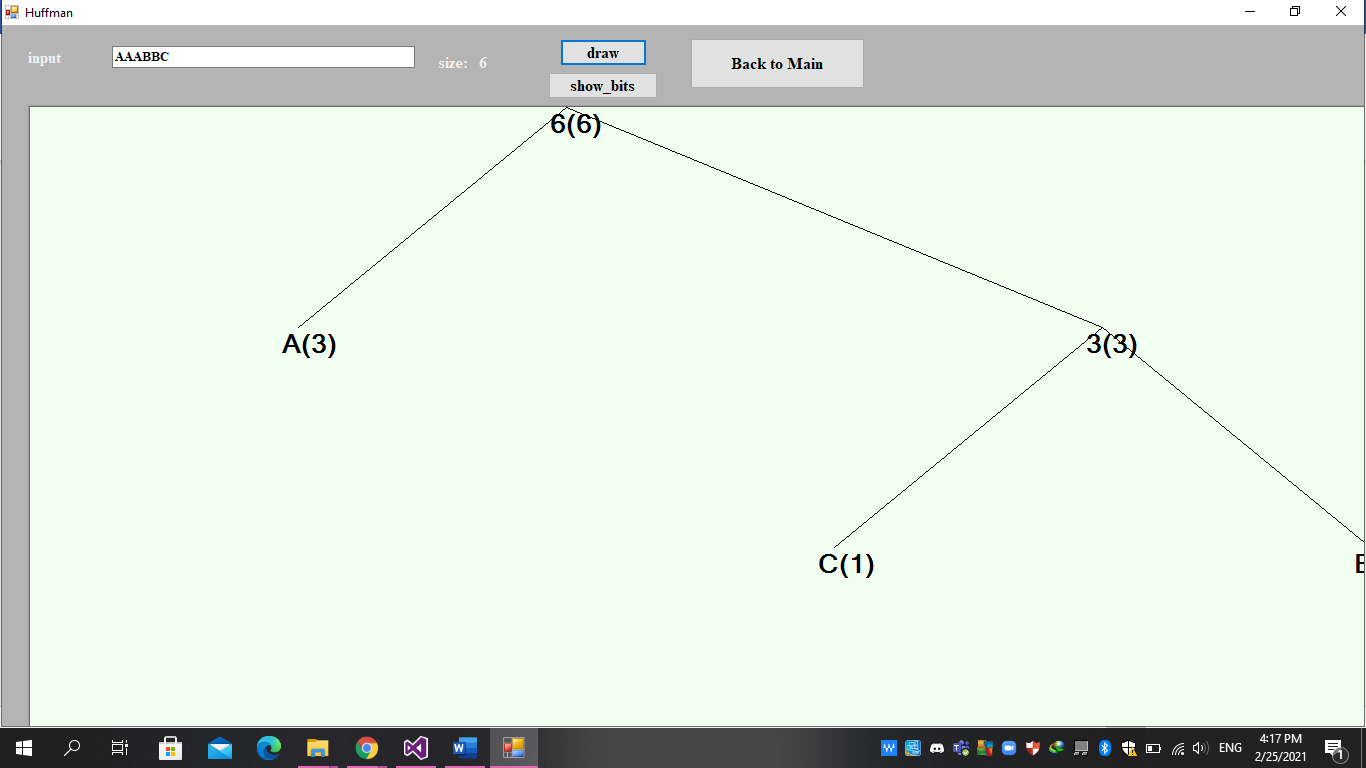
  Description automatically generatedShow number of bits and the code**

# **Huffman Code:**

The third algorithm consists of a button to draw and a button to display the number of bits used.

A picture containing text, screenshot, monitor, computer

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* **Drawing:** Input >> AAABBC
* **A computer screen shot

  Description automatically generated with low confidenceShow number of bits and the code:**

# **Adaptive Huffman:**

The fourth algorithm consists of a TextBox to write the sequence and a button to clear.

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A computer screen shot

Description automatically generated with low confidence

* **During Run:**

A computer screen shot

Description automatically generated with low confidenceInput : AADCCDD

A picture containing graphical user interface

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# **LZW:**

The fifth algorithm consists of one button for the Encode and another for the Decode.

* **Encode:**

Input : ABABBABCABABBA

Output: 1 2 4 5 2 3 4 6 1

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* **Decode:**

Output: ABABBABCABABBA

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