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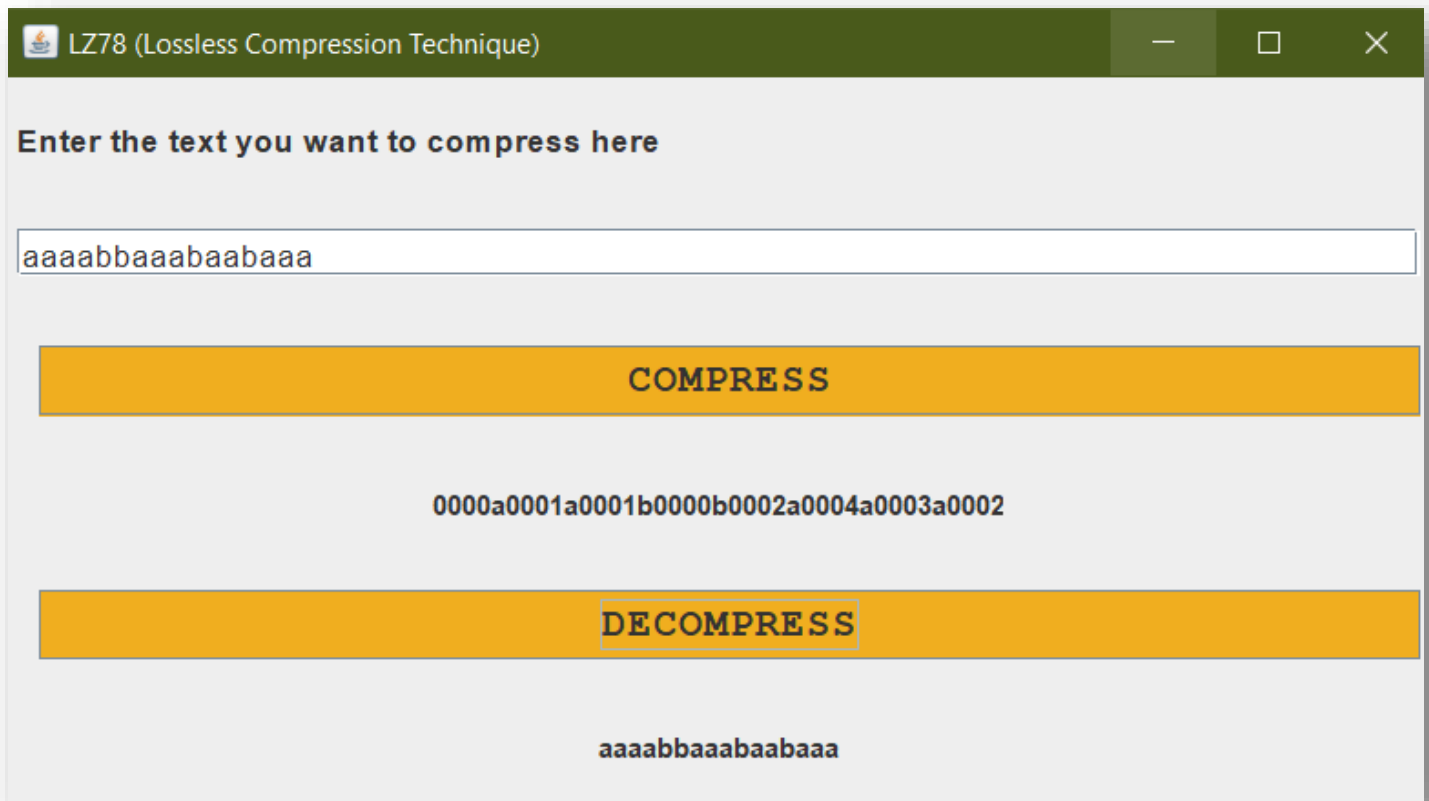# LZ78 (Lossless Compression Technique)

Summary:

This small program makes use of one of the important text compression algorithms, LZ78. It's used to encode Files into compressed format with **a small size** if it's stored in a binary format, then you can **decode** the text again whenever you want into a readable format.

The program has **two options**. It can take the **text file name** from the user by running the main function in the file **LZ78.java** then the compressed text will be in a file named **compressed.txt**, or you can run the **GUI app** from the file **GUI.java** and enter the text you want as in the following picture.

You can find more infromation for **how this algorithm works** at this PDF Link, starting from **page 55**.

The project is built using **Java, IntelliJ.**